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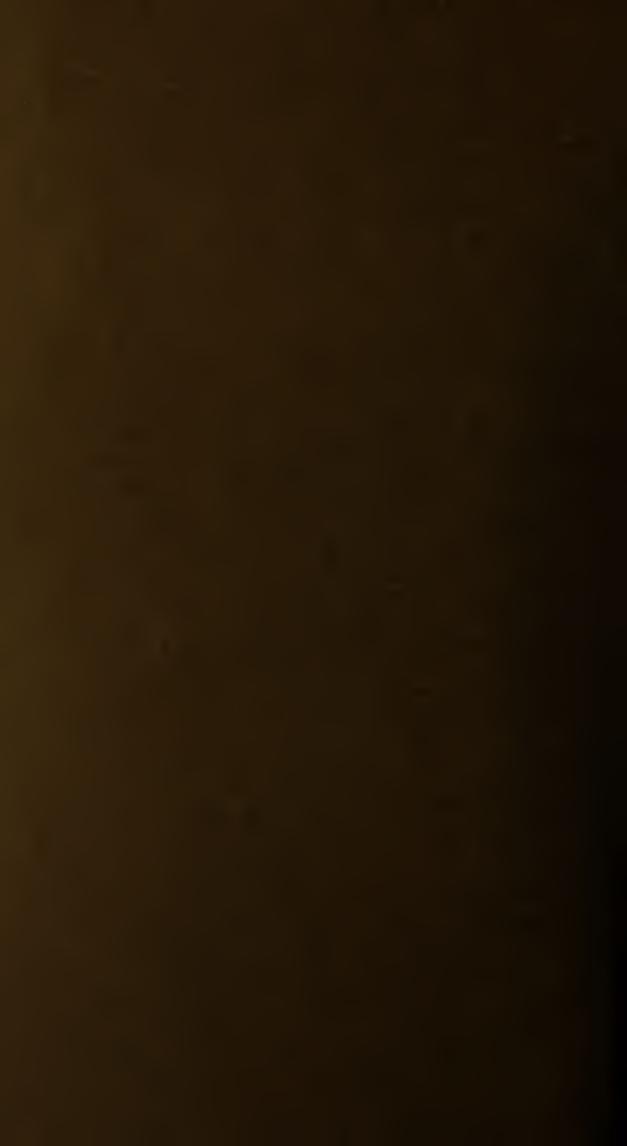


ANNUAL REPORT

ON CERTAIN MATTERS
CO CERNING

Public Health

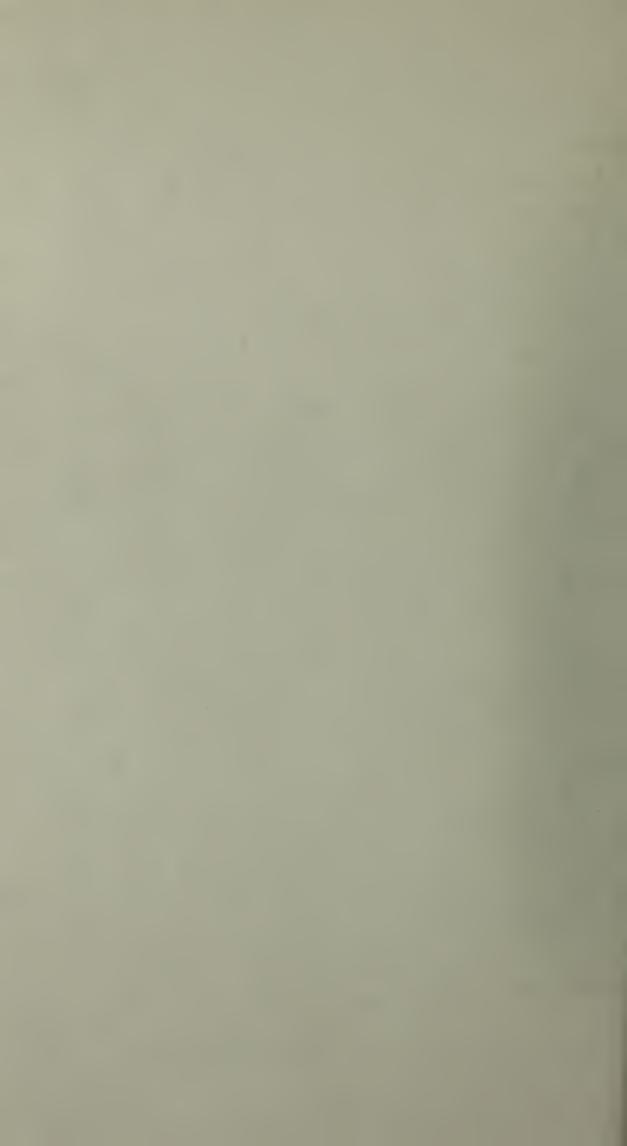
TOR THE YEAR 1963



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^{*} Based on Returns received from the Registrar General



RURAL DISTRICT COUNCIL OF DARTFORD

Report for the year 1963 on certain matters concerning Public Health

July 1965

To THE CHAIRMAN AND MEMBERS OF THE RURAL DISTRICT COUNCIL OF DARTFORD

Mr. Chairman, Lady and Gentlemen,

As soon as practicable after the end of each year it is the duty of a medical officer of health to make to the local authority a report for that year on the sanitary circumstances, sanitary administration, vital statistics and other public health matters concerning their district. The report that follows is written in compliance with that duty.

Meticulous attention to the expectation of life may be less than useful and in arranging the figures that follow one feels like a communal hypochondriac. However, it is expedient that in a population of near 60,000 one small office should record these matters in order that where feasible, local attitudes on healthmatters may be in harmony with local facts.

The information in this report contains much material provided by officers of other departments and other authorities or organisations. The facts on many environmental matters are the product of work by the Council's Public Health Inspectors. The presentation of the statistical material is a product of the patience of the clerical staff. I thank these colleagues for their co-operation.

On behalf of my colleagues in the public health office and myself I wish to thank the Chairman and Members of the Public Health Committee for their support and interest during the year under review.

I am, Sir, Lady and Gentlemen,

Your obedient servant,

Medical Officer of Health



SUMMARY

The population increase continued.

The adjusted birth rate and rate of natural increase both lessened but remained above the rates for England and Wales.

The death rate fell slightly while that of England and Wales rose.

Deaths from coronary disease rose by 25% on previous years and the death rate from this disease became identical with that of England and Wales.

The trend of the death rate for cancer of the lung was less than that of England and Wales.

Deaths from tuberculosis increased.

Three "cot" deaths occurred in January and February and a fourth in December.

There was an exceptionally severe winter.

The influence of winter is reviewed in an addendum.

The suicide rate remained substantially lower than that of England and Wales and neighbouring areas.

Admissions to the Dartford group of hospitals for accidents in the home were less than previous years.

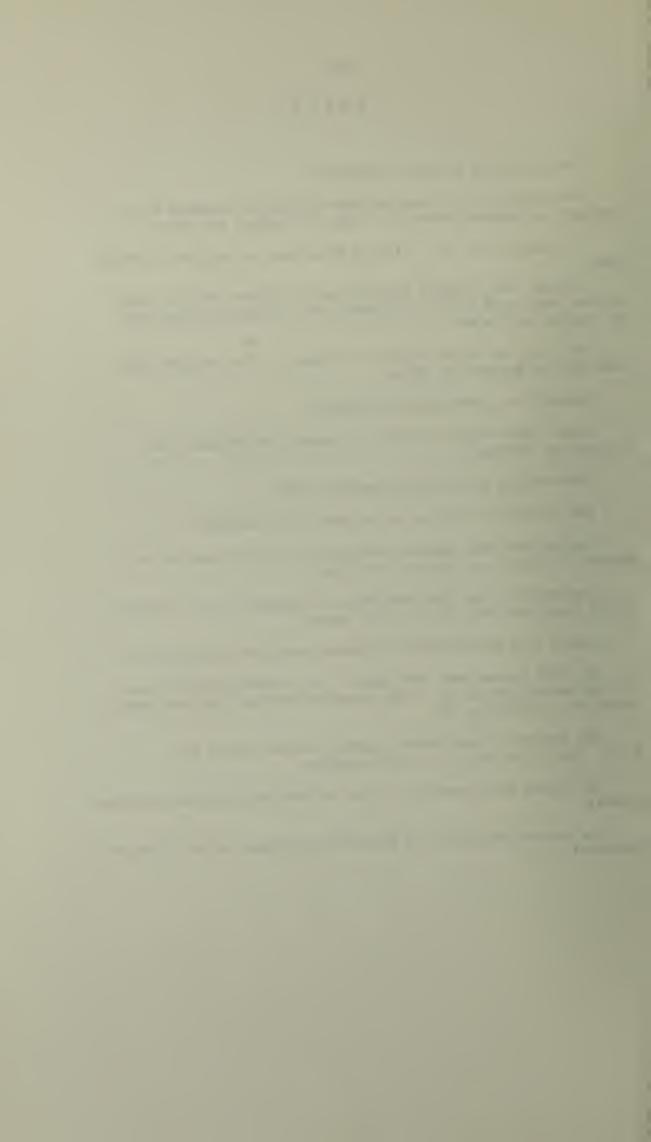
Deaths from motor vehicle accidents were less than in 1962.

22 unfit houses were demolished. 430 caravans were in use for residential purposes. The effective waiting list for Council tenancies increased by 4%.

The raw water from Fawkham pumping station showed 180+ E.coli type I per 100 ml. in three samples.

208 houses were connected to the new Hartley/Longfield sewerage scheme.

The controlled tipping of Metropolitan refuse in this district increased.



COMMENTARY ON TABLES

POPULATION

The increase continued but owing apparently to fewer in-comers the recent annual increases were less than in previous years.

The rate of natural increase (per thousand population) which has been steadily increasing in recent years also appeared to be levelling out.

	Births	Deaths	Natural increase	Population	Rate of natural increase
1954	586	416	170	39,110	4.4.
1955	627	405	222	41,290	5.4
1956	770	457	313	43,940	7.3
1957	848	486	362	45,810	8.0
1958	941	493	448	47,660	9.4
1959	979	483	496	50,090	9.9
1960	1068	455	613	52,380	11.7
1961	1159	538	621	53,260	11.6
1962	1187	560	627	55,190	11.3
1963	1203	578	625	56,320	11.0

The rate for England & Wales in 1963 was 6.0

BIRTHS

The trend has been as follows:-

	1956	1957	1958	1959	1960	1961	1962	1963
*Birth Rate	_		19.4	979 19.2 16.5	19.6		20.6	_

* adjusted by comp.factor

The percentage of births at home has been:-

	Births	Nursing Home	Elsewhere	%
		or hospital	i.e.own home	Home
1956	770	537	233	30
1957	848	589	259	30
1958	941	633	308	32
1959	979	654	325	33
1960	1068	706	362	34
1961	1159	768	391	34
1962	1187	766	421	35
1963	1203	766 *	437	36

* These are not typing errors, they illustrate how slow change appears in our peace time pattern of health affairs.

DEATHS

In recent years these have been:-

	1956	1957	1958	1959	1960	1961	1962	1963
Deaths								
(R.G)	457	486	493	483	455	538	560	578
Adjusted								
Death Rates (C.F)	10.5	9.6	10.0	10.3	10.1	11.1	11.5	11.2
Eng & Wales Death Rates	11.7	11.5	11.7	11.6	11.5	12.0	11.9	12.2

MAIN CAUSES OF DEATH There has been no change in the pattern except for increased emphasis on the first quarter.

As usual the chances of dying from cancer were about 1 in 5 and from vascular lesions of the nervous system (strokes) 1 in 10. If cancer were the cause there was a 70% chance of dying before 75 whereas if V.L.N.S. were the cause there was a 70% chance of dying after reaching the age of 75. Circulatory disease continues to be responsible for one third of the deaths, half of which are under the age of 75 years.

Coronary Disease The number increased and 16 deaths from this cause occurred under the age of 55 years.

The figures (R.G.) for the last 5 years have been:

Rate per thousand population

Year	Number Dartford	R.D.	Dartford	R.D.	Eng. & Wales	London
1959	66		1.33		1.87	1.89
1960	101		1.92		2.01	2.02
1961	102		1.92		2.07	2.05
1962	102		1.85		2.20	2.26
1963	128		2.29		2.29	2.36

By quarters the figures (local) were:

1963.	Male	Female	Persons
lst qr.	23	23	46
2nd qr.	11	12	23
3rd qr.	16	7	23
4th qr.	<u>24</u>	_9	_33
	74	51	125

VASCULAR LESIONS OF NERVOUS SYSTEM Much the usual picture (see 1962 report). Deaths from this cause - 1958 - 1963 have been 61, 52, 57, 65, 77 and 57.

CANCER

Much the usual picture (see 1962 report).

Cancer of the lung

Rate per thousand population

Year	Number Dartford R.D.	Dartford R.D.	Eng.& Wales	London
1958	11	0.23	0.44	0.64
1959	26	0.52	0.46	0.64
1960	23	0.44	0.48	0.70
1961	17	0.32	0.49	0.67
1962	28	0.51	0.51	0.68
1963	26	0.46	0.52	0.70

4 were females, only 2 males and 1 female were under 55 years of age.

Cancer of the uterus

Much the usual picture (see 1962 report). Deaths have been:

Leukaemia

Year	Cancer of uterus	Leukaemia
1958	4	2
1959	5	4
1960	1	1
1961	5	2
1962	4	3
1963	3	4

ESPIRATORY DISEASE Much the usual picture. More than half occur at the age of 75 or over and almost half occur in the first quarter.

EATHS
ELATING TO
HE WELFARE
F INFANTS
ND MOTHERS

There was one death assigned to pregnancy; delivery was at home.

The Infants deaths were:

	Age	Cause	Number
Less	than 1 day	- Immaturity Rhesus antibodies Congenital malformation	3 1 1 5
1 to	6 days	- Immaturity Immaturity with cerebral haemorrhage Congenital malformation	2 1 2 5
7 to	27 days	- Congenital malformation Pyogenic meningitis	1 1 2
28 to	364 days	- Congenital malformation Pneumonia with congenital malformatic Pneumonia Bronchitis	2

Three occurred in January and February, in satisfactory housing conditions. The fourth occurred in December in an unfit house which was subsequently closed. Ages 1 to 3 months.

The Still Births were:-

In hospital

I.C.D. Code No.	Sex	Weeks	Weight	Cause
Y30	M	38	8 lbs	Maternal diabetes
Y32	M	36	3 lbs	Toxaemia pre-eclamptic
Y32	M	28	1 1b	. 11
Y34	F	40	7 lbs	Breech delivery
Y34	M	41	9 1bs	11 11
Y34	M	38	8 lbs	Malpresentation
Y34	M	40	8 lbs	Malpresentation. Bicorninate uterus
¥36	M	39	N.S.	Prolapse cord
Y37	M	34	4 lbs	Quick delivery
Y38	F	36	5 lbs	Congenital malformation
Y38	F	38	4 lbs [.]	11 11
Y38	F	40	3 lbs	
Y39.5	F	40	7 lbs	Ante partum asphyxia
Y39.5	M	40	7 lbs	11 11 11
Y39.6	M	40	5 lbs	Intra uterine death
Y39.6	F	38	5 lbs	11 11 11

I.C.D. Code No.	Sex	Weeks	Weight	
Y36 Y39.5	F M	?	?	Cord round neck Intra uterine anoxia
Y39.6	F	36	5 lbs	Intra uterine death *
¥39.6	F	?	?	Unknown
Y38	F	?	?	Congenital malformation

* At relatives home outside district

Deliveries with hazards take place in hospital and deliveries where hazards are not expected take place at home. Although comparison of still birth rates at home and hospital is thus not feasible the respective rates are of interest for a comparison with other districts.

	Dartford R.D.	Dartford Borough
Hospital Still Birth Rate	20.7	20.1
Home Still Birth Rate	11.3	10.1

DEATHS THROUGH INJURY Deaths through motor vehicle accidents and accidents in the home are discussed below under "accidents".

One male aged 20 was drowned as a result of a collision between motor boat and steamer on the Upper Thames. Five persons died from exposure to cold. They are discussed below as cases of self neglect. (see addendum)

Suicides

At 3 the number of suicides was in keeping with the lower crude rate for this district. In the ten years 1954-63 suicides have been:

	Av.Pop.	Number	Period	Rate/100,000/year
Dartford Town	42,000	56	1954-63	13.3
Northfleet U.D.	21,000	23	1954-63	11.0
Dartford R.D.	48,000	31	1954-63	6.4
Eng. & Wales 47	023,000	5715	1963	12.1

ACCIDENTS

This subject has been discussed in previous reports.

The number of admissions from accidents in the home reported in 1963 from the Dartford Group of Hospitals was only about half the usual annual number.

A death occurred at the age of 78 of a person living alone whose house caught fire.

Motor vehicle accidents caused the death of 8 residents of Dartford Rural District in 1963 - there were 9 in 1962.

The casualties on our roads not necessarily residents of this district in the last 2 years were:

1962	16	killed	134	seriously	injured
1963	9	killed	135	seriously	injured

INFECTIOUS DISEASES There was nothing much different from previous years in the picture presented by 1963.

As usual immunity against polio, smallpox, diphtheria, whooping cough and tetanus accepted by the young population through vaccinations compared well with other areas in the country, but re-vaccination of school children against smallpox was negligible.

Deaths from tuberculosis were comparatively high in 1963, recent figures being:

1958	3	1961	4
1959	2	1962	1
1960	3	1963	10

The case of food poisoning was a male aged 50 years, the agent being T.saginata, the infestation being probably obtained abroad. The house occupied by the patient was on main drainage.

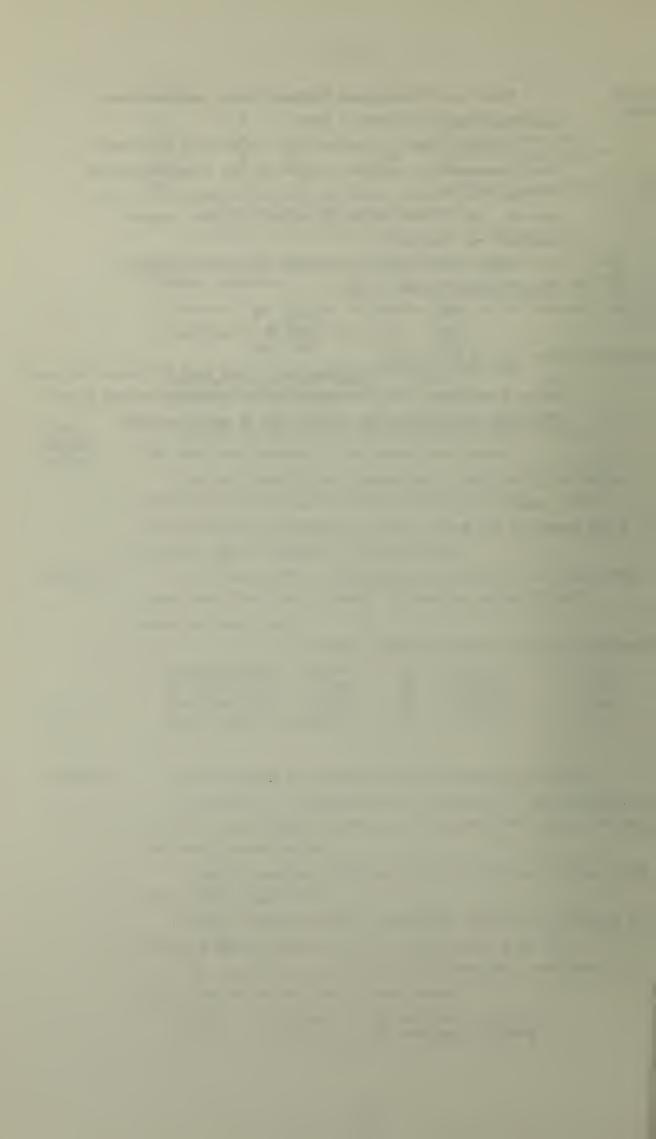


TABLE I - SOCIAL CONDITIONS

Area (acres) 1961	34,038
Population (census 1961)	53,164
Mid-year home population 1963 (R.G's estimate)	56,320
Number of domestic and agricultural dwelling houses	
assessed to rates 31. 3. 64	16,603
Rateable value 31. 3. 64	£2,072,467
Sum represented by 1d rate 31. 3. 64	£8,404

In the last eight years the area comparability factor for births (governed by the proportion of women aged 18-44) and for deaths (governed by the proportion of all age groups) have been as follows:

Year	1956	1957	1958	1959	1960	1961	1962	1963
Births Deaths				0.98 1.07				

When local crude birth and death rates are multiplied by the appropriate area comparability factor they are comparable with the crude rate for England and Wales or with the corresponding adjusted rate for any other area.

POPULATION: Increases in the population are due to natural causes, i.e. excess of births over deaths and immigration, both being related to new houses built.

	1956	1957	1958	1959	1960	1961	1962	1963
Est.mid-year home population	43,940	45,330	47,660	50,090	52,380	53,260	55,190	56,320
Increase on previous year	2,650	1,390	2,330	2,430	2,290	880	1,930	1,130
Natural increase	323	362	448	496	613	621	627	620
Immigration	2,327	1,028	1,882	1,934	1,677	254	1,303	510
Houses built	1,018	380	742	725	561	667	406	409

Social conditions for the year may be illustrated by:

Cases dealt with by the N.S.P.C.C.

	Dec.	1962	1963
Neglect		19	24
Assault/ill treatment		2	3
Beyond control		600	1
Advice/aid sought		5	3
Children involved		87	74
Legal proceedings		2	1

Unemployed (combined figures for Rural District and Dartford Borough)

	Dec. 1962	1963
Men	347	215
Women	18	60

Illegitimate birth rate per thousand live births:

	Dartford Rural District	Dartford Borough	England & Wales
1962	29	40	66
1963	30	46	69

POPULATION OF YOUNG PERSONS

A guide is necessary to the population in the young age groups in the district in order that we may form an idea from vaccinations done of the proportion who have been given immunity to certain infectious diseases. A rough estimate can be made from the births which have occurred in the district in the relevant years but it assumes a stable population and does not take into account deaths after one year of age. The balance of those coming into the district and those leaving mean that these populations are probably underestimated.

Year	Age 31.12.63	Births	Infant deaths	Infants survivin to 1 yea	g	tion Dec.1963
1963 1962 1961 1960 1959	0 1 2 3 4	1203 1187 1159 1068 979	20 19 17 23 11	1183) 1168) 1142) 1045) 968)	Age Dec.1963 0 - 4 years = 5506	
1958 1957 1956 1955 1954 1953 1952	5 6 7 8 9 10 11	941 848 770 627 586 539 514	21 21 12 17 12 7 17	920) 827) 758) 610) 574) 532) 497)	Age Dec.1963 5 - 11 years = 4718)))) Age Dec.1963
1951 1950 1949 1948	12 13 14 15	576 545 565 631	13 17 28 19	563) 528) 537) 612)	Age Dec.1963 12-15 years = 2240	5-15 years = 6958
1947 1946 1945 1944	16 17 18 19	752 721 529 577	25 33 19 25	752 688 510 552	Age Dec.1963 16-19 years = 2502	

Population of school children in primary schools 1963 = 5113

Local population estimates also useful in returns:

	Age Dec.1963		Population	
Born 1957-1963 " 1943-1956 " 1943-1963 " 1949-1958	0 - 6 yea 7 -20 " 0 -20 " 5 -14 "		7253 8 208 15461 6346	
1961 Census:	26-7	Tamalaa	Damasma	
Age	Males	Females	Persons	
0 - 4	2,692	2,440	5,132	
5 - 9	2,120	1,935	4,055	
10 -14	2,004	2,062	4,066	
15 -19	1,658	1,622	3,280	
20 –24	1,373	1,572	2,945	
25 -34	4,229	4,313	8,542	
35 -44	4,092	3,895	8,087	
45 -54	3,537	3,897	7,434	
5564	2,579	2,665	5,244	
65 -74	1,357	1,824	3,181	
75 +	943	917	1,860	
Living alone:	Males	Females		
65 +	164	-		
60 +	-	636		

	TABLE II - BIRTHS & DEA	THS, 1963		
		M	F	Persons
Live Births:	Legitimate Illegitimate	600 <u>21</u>	566 16	1166
		621	582	1203
Deaths from all caus	es:	306	272	578
Deaths from pregnanc	y, childbirth, abortion	CEH	1	1
Still Births:	Legitimate Illegitimate	9 <u>1</u>	10	19 <u>1</u>
		10	10	20
Infant deaths by age 0 to 6 days:	: Legitimate	7	4	1.1
	Illegitimate	gro desco	<u>an</u>	and magnitude
		7	4	11
7 to 27 days :	Legitimate	1	1	2
	Illegitimate	CALD THEOLOGY		Conjunction Conjun
		1	1 -	2
28 to 364 days :	Legitimate Illegitimate	4	1	5 <u>2</u>
	TITEST 01ma 0e	4	<u>2</u> 3	7
		64 osan) 	
Total under 1 year:	Legitimate	12	6	18
	Illegitimate	966 Hall (1940)	2	2
		12	8	20
	Rates per 1,000 Home P	opulation		
٠		Dartford R.	D. E	ngland & Wales
Crude live birth rat	е	21.1.		18.2
Live birth rate adju	sted by comparability	18.5		18.2
Crude death rate	factor	10.2		12.2
Death rate adjusted	by comparability factor	11.2		12.2
	Rates ner 1 000 Live a	nd C+:111 D:-	ath a	

	Dartiora R.D.	England & Wales
Crude live birth rate	21.1.	18.2
Live birth rate adjusted by comparability	18.5	18.2
Crude death rate factor	10.2	12.2
Death rate adjusted by comparability factor	11.2	12.2
Rates per 1,000 Live a	nd Still Births	
Maternal death rate	08	0.28
Still birth rate	16.4	17.2
Perinatal death rate (s.b. & deaths 0-6 days) 25.5	29.3
Rates over 1,000 Live 1	Births	
Neonatal death rate (deaths 0-27 days)	10.8	14.3
Infant death rate (deaths 0-364 days)	16.4	21.1

TABLE IIIA- CAUSES OF DEATH ACCORDING TO SEX Register General's Return

	M	F	Persons
All causes	306	272	578
Tuberculosis, respiratory	7	3	10
Tuberculosis, other	-	care.	op.
Syphilitic disease	1	~	1
Diphtheria	-	-	-
Whooping cough Meningococcal infections	_	_	60
Acute poliomyelitis	_	1200	
Measles	ство	con	cos
Other infective and parasitic disease	-	cma	••
Malignant neoplasm, stomach	9	5	14)
Malignant neoplasm, lung bronchus	22	4	26)
Malignant neoplasm, breast	G	11	11)
Malignant neoplasm, uterus	7 5	3	3) 110
Other malignant and lymphatic	35	1.7	52)
neoplasms Leukaemia, aleukaemia	2	2	4
Double and	-	_	7/
Diabetes	2	1	3
Vascular lesions of nervous system	21	36	57 57
Coronary disease, angina	72	56	128)
Hypertensions with heart disease	3	4	7) 214
Other heart disease	18	21	39)
Other circulatory disease	16	24	40)
Influenza	2	5	7)
Pneumonia	23	17	40) 87
Bronchitis	18	13	31)
Other disease of the respiratory	5	4	9)
system			
Ulcer of stomach and duodenum	5	2	7
Gastritis, enteritis and diarrhoea	1	3	4
Nephritis and nephrosis	2	1	3
Hyperplasia of prostate	3		3
Pregnancy, childbirth, abortion	5	1 4	1 9
Congenital malformations Other defined and ill-defined diseases	24	27	51
O WILL GOTTING WING TIT-GOTTING GIDGOOGO	-4	-1) -
Motor vehicle accidents	5 3	3	8
All other accidents	3	4	7
Suicide	2	1	3
Homicide and operations of war			-

TABLE IIIB - CAUSES OF DEATH ACCORDING TO AGE Registrar General's Return

Danasaa	All ages	- 4 wks	- wks	4 yrs	5 -14 yrs	5 -24 yrs	-34	-44	5 -54 yrs	5 -64 yrs	5 -74 yrs	75 + Main causes
Persons All causes	578	1 Z	7	5	3	6 15	9 25	6 35	5 4 51	93	123	259 259
	10	1)	1)	7	7		ッ 、1		4	1	1
Tuberculosis, respiratory Tuberculosis, other	-	_	_	_	_		-	_ 	3	4	.l	
Syphilitic disease	1	-	-	-	-	-	-	-	-	1	-	-
Diphtheria Whooping cough	_	_	_	_	_	_		-	_	-		_
Meningococcal infections	-	-	-	-	-	-	-	-	-	***	***	cas
Acute poliomyelitis Measles	-	_	_	_	_	_	_	_	useh	_	_	_
Other infective and parasitic disease												
Malignant neoplasm, stomach Malignant neoplasm, lung	14	-	-	****	***		Smith	1		5	3	5)
bronchus	26	-	-	-	==	-	1	costs	2	15	6	2)
Malignant neoplasm, breast Malignant neoplasm, uterus	11	_	_		GEO	_	_	1	4	1	2	4)
Other malignant and lymphatic								_)110
neoplasm Leukaemia,aleukaemia	52 4	-	-	ī	_	caec éaic	1	1 -	12 -	10	14	14) 2)
Diabetes	3	_			_	_	_	_		clant	1	2
Warran Jan Jan tanan di kananan												
Vascular lesions of nervous system	57	***	_	_	_	_	rando	1940	1	8	8	40) 57
Coronary disease, angina	128	_	_	1360	_	_	***	2	14	25	27	60)
Hypertension with heart disease	7	-	-	_	_	-	-	ero	1	1910	5	1)214
Other heart disease Other circulatory disease	39 40	_	_	1	_	_	-	2	1	1	8 13	28) 21)
	_							_	_		-/	
Influenza Pneumonia	7 40	_	- 3	-	1	_	1	_	- 1	1 3	7	5) 25) 87
Bronchitis	31	-	3 2		-	1	-	-	4	4	6	14)
Other diseases of respiratory system	9	_		_	1969	_	1	_	-	1	3	4)
Ulcer of stomach and duodenum	7	-	-	-	_	-	-	1883	-	3	2	2
Gastritis, enteritis and diarrhoea Nephritis and nephrosis	4	_	_	_	_	_	1	~	_	- 1	1 2	2
Hyperplasia of prostate	3	-	_1	_	_	_	_	_	_	_		3
Pregnancy, childbirth, abortion	1	-	_	-	-	-	1	-	_	com	_	cuto
Congenital malformations Other defined and ill-defined	9	5	1	2	-	-	-	-	-	-	1	90m
diseases	51	8	1	-	1	5	-	1	2	4	9	20
Motor vehicle accidents	8	_	-	-	1	2	-	-	2	1	2	-
All other accidents Suicide	7	-	-	1	***	1	-	-	1	1	2	2
Homicide and operations of war	- -	-		-	-	_	-	_	-	_	-	-

Registrar General's Return													
	മ	zy s			တ	yrs	yrs	yrs	yrs	yrs	yrs		causes
	age	days	wks	yrs	yrs	>							Sau
	Н	27	8	4	5-14	15-24	-34	35-44	-54	5-64	65-74	+	
Males	Al	ß	4	1-4	5	15	25-	35	45	55	69	75	Main
All causes	306	8	4	2	1	5	2	7	32	67	70	108	2
Tuberculosis, respiratory	7	260	-		-	-	cont	1	1	3	1	1	
Syphilitic disease	1	-	-	7900		-	-	-	-	1	-	-	
Maligant neoplasm, stomach	9	-	-	-	-	CMD	Case	1	000	4	2	2)	
Malignant neoplasm, lung bronchus Other malig. and lymph.neoplasms	22	-	•	-	can	•	Ţ	~ ~	1	13 10	6	1)	68
Leukaemia, aleukaemia	35 2	_	-	1	***	ques trac		1	1	10	9	13	00
Diabetes	2	_	eto	-	_	•	_	_	-	-1-	_	2	
Vasc.lesions of nervous system	21	-	-	-	6246	enn	quet	180	1	6	3	11	21
Coronary disease, angina	72	_	-	-	-	-	CMD	2	11	18	17	24)	
Hypertension with heart disease	3	wito	- Can	eo	can	erro	-	-	1	-	2		.09
Other heart disease Other circulatory disease	18 16	wito	unico .	Τ.	-	C164	ecm	1	1	1 2	6	9) 6)	
Influenza	5	CMIN	-	-	7	1000	-	_	_	~	_	7 \	и.
Pneumonia	23	uato	1	_	_	-	Shin		1	2	3	16)	48
Bronchitis	18	_	1		-	-	œ	cue-	3	3	4	7)	
Other diseases of resp.system	5	-	como	0030	-	como	_	como	mic .	-	2	3)	
Ulcer of stomach and duodenum	5	-	-	•		-	-	-	gar.	1	2	2	ш
Gastritis, enteritis & diarrhoea	1 2	-	-	-	-	-	-	-	-	-	1		ш
Nephritis and nephrosis Hyperplasia of prostate		-	-	-	-	-	Case		_	Τ	T	3	
Congenital malformations	3 5	3	1	caso man	_	980		980	_	_	- ו	<i>-</i>	
Other def.and ill-def.diseases.	24	5	1	rano.	_	3	œ	1	Camp	COP	3	11	
Motor vehicle accidents	5 3	_	CED	es	mo	ĺ	-	1360	2	1	ĺ	-	
All other confidents	7	-	con		-	1	_	man	1	-	-	1	
All other accidents													
Suicide Suicide	2	om.	-	rate	***	CMB	_	(500)	1	-	C38	1	- 6
Suicide		-	-		- Calo	000	-	(gac)	1	-	-	1	1
Suicide Females	2	5	- 3	3	2	4	4	2	1	- 26	53	151	
Suicide Females All causes		5	3	3	2	4	4	2	19	26	53	1	
Suicide Females All causes Tuberculosis, respiratory	2	5	3	3	2	4	4	2	19 2	26 1	53	-	
Suicide Females All causes Tuberculosis, respiratory Malignant neoplasm, stomach	2 2 7 2 3 5	5	3 -	3	2	4 -	4 -	2	2 -	1	53	- 3)	
Females All causes Tuberculosis, respiratory Malignant neoplasm, stomach Malignant neoplasm, lung bronchus	2	5	3	3	2	4	4	2	2 - 1		53	- 3) 1)	
Females All causes Tuberculosis, respiratory Malignant neoplasm, stomach Malignant neoplasm, lung bronchus Malignant neoplasm, breast	2 272 3 5 4	5	3	3	2	4	4	2 1	2 -	1 1 2	1	- 3) 1) 4) 1)	4
Females All causes Tuberculosis, respiratory Malignant neoplasm, stomach Malignant neoplasm, lung bronchus Malignant neoplasm, breast Malignant neoplasm, uterus Other Malig. and lymph. neoplasms	2 272 3 5 4 11 3 5	5	3	3	2	4	4	one one	2 - 1 4	1 1 2	1	3) 1) 4) 1) 7)	4
Females All causes Tuberculosis, respiratory Malignant neoplasm, stomach Malignant neoplasm, lung bronchus Malignant neoplasm, breast Malignant neoplasm, uterus Other Malig. and lymph. neoplasms Leukaemia, aleukaemia	272 35 411 37 2	5	3	3	2	4	4	one one	2 - 1 4 1	1 1 2	1 - 2	- 3) 1) 4) 1)	4
Females All causes Tuberculosis, respiratory Malignant neoplasm, stomach Malignant neoplasm, lung bronchus Malignant neoplasm, breast Malignant neoplasm, uterus Other Malig. and lymph. neoplasm Leukaemia, aleukaemia Diabetes	272 35 411 3 17 2	5	3	3	2	4	4	one one	2 - 1 4 1	1 1 2 1 -	1 2 5 1	3) 1) 4) 1) 7) 2)	4
Females All causes Tuberculosis, respiratory Malignant neoplasm, stomach Malignant neoplasm, lung bronchus Malignant neoplasm, breast Malignant neoplasm, uterus Other Malig. and lymph. neoplasm Leukaemia, aleukaemia Diabetes Vasc.lesions of nervous system	272 35 4 11 3 5 17 2 1 36	5	3	3	2	4	4	one one	2 - 1 4 1 5	1 1 2	1 - 2 - 5 - 1 5	- 3) 1) 4) 1) 7) 2) - 29	4
Females All causes Tuberculosis, respiratory Malignant neoplasm, stomach Malignant neoplasm, lung bronchus Malignant neoplasm, breast Malignant neoplasm, uterus Other Malig. and lymph. neoplasm Leukaemia, aleukaemia Diabetes Vasc.lesions of nervous system Coronary disease, angina	272 354 113 3172 13656	5	3	3	2	4	4	one one	2 - 1 4 1	1 1 2 1 -	1 - 2 - 5 - 1 5 10	- 3) 1) 4) 1) 7) 2) - 29	4
Females All causes Tuberculosis, respiratory Malignant neoplasm, stomach Malignant neoplasm, lung bronchus Malignant neoplasm, breast Malignant neoplasm, uterus Other Malig. and lymph. neoplasm Leukaemia, aleukaemia Diabetes Vasc.lesions of nervous system Coronary disease, angina Hypertension with heart disease	272 35 411 37 21 36 56 4	5	3	3	2	4	4	one one	2 - 1 4 1 5	1 1 2 1 -	1 2 - 5 - 1 5 10 3	- 3) 1) 4) 1) 7) 2) - 29 36) 1) ₁	4 3 3 2
Females All causes Tuberculosis, respiratory Malignant neoplasm, stomach Malignant neoplasm, lung bronchus Malignant neoplasm, breast Malignant neoplasm, uterus Other Malig. and lymph. neoplasm Leukaemia, aleukaemia Diabetes Vasc.lesions of nervous system Coronary disease, angina	272 35 411 37 21 36 56 421	5	3	3	2	4	4	one one	2 - 1 4 1 5	1 1 2 1 -	1 - 2 - 5 - 1 5 10	- 3) 1) 4) 1) 7) 2) - 29 36) 1)1	4 3 3
Females All causes Tuberculosis, respiratory Malignant neoplasm, stomach Malignant neoplasm, lung bronchus Malignant neoplasm, breast Malignant neoplasm, uterus Other Malig. and lymph. neoplasm Leukaemia, aleukaemia Diabetes Vasc.lesions of nervous system Coronary disease, angina Hypertension with heart disease Other heart disease	272 35 411 37 21 36 56 4	5	3	3	2	4	4	one one	2 - 1 4 1 5	1 1 2 1 -	1 2 - 5 - 1 5 10 3	- 3) 1) 4) 1) 7) 2) - 29 36) 1) ₁	4 3 3
Females All causes Tuberculosis, respiratory Malignant neoplasm, stomach Malignant neoplasm, lung bronchus Malignant neoplasm, breast Malignant neoplasm, uterus Other Malig. and lymph. neoplasm Leukaemia, aleukaemia Diabetes Vasc.lesions of nervous system Coronary disease, angina Hypertension with heart disease Other circulatory disease Influenza Pneumonia	272 35411 3721 3656 421245	5	3 2	3	2	4	4 1	one one	2 - 1 4 1 5	1 1 2 1 -	1 - 2 - 5 - 1 5 10 3 2 7 - 4	- 3) 1) 4) 1) 7) 2) - 29 36) 1) ₁ 19) 15) 4)	4 3 0
Females All causes Tuberculosis, respiratory Malignant neoplasm, stomach Malignant neoplasm, lung bronchus Malignant neoplasm, breast Malignant neoplasm, uterus Other Malig. and lymph. neoplasm Leukaemia, aleukaemia Diabetes Vasc.lesions of nervous system Coronary disease, angina Hypertension with heart disease Other circulatory disease Influenza Pneumonia Bronchitis	272 35 411 37 21 36 56 421 224 517	5		3	2	4 1	4	one one	2 - 1 4 1 5	1 1 2 1 - - 2 7 - 1 1 1	1 2 - 5 - 1 5 10 3 2 7 - 4 2	- 3) 1) 4) 1) 7) 2) - 29 36) 1)1 19) 15) 4) 9) 7)	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Females All causes Tuberculosis, respiratory Malignant neoplasm, stomach Malignant neoplasm, lung bronchus Malignant neoplasm, breast Malignant neoplasm, uterus Other Malig. and lymph. neoplasm Leukaemia, aleukaemia Diabetes Vasc.lesions of nervous system Coronary disease, angina Hypertension with heart disease Other heart disease Other circulatory disease Influenza Pneumonia Bronchitis Other diseases of resp.system	272 35 411 37 21 36 56 421 245 17 13	5		3	2	4	4 1	one one	2 - 1 4 1 5	1 1 2 1 - - 2 7 - 1 1 1 1	1 - 2 - 5 - 1 5 10 3 2 7 - 4	- 3) 1) 4) 1) 7) 2) - 29 36) 1) ₁ 19) 15) 4)	4 4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Females All causes Tuberculosis, respiratory Malignant neoplasm, stomach Malignant neoplasm, lung bronchus Malignant neoplasm, breast Malignant neoplasm, uterus Other Malig. and lymph. neoplasm Leukaemia, aleukaemia Diabetes Vasc.lesions of nervous system Coronary disease, angina Hypertension with heart disease Other circulatory disease Influenza Pneumonia Bronchitis Other diseases of resp.system Ulcer of stomach and duodenum	272 35 413 365 421 245 1713 42	5		3	2	4	4	one one	2 - 1 4 1 5	1 1 2 1 - - 2 7 - 1 1 1	1 2 - 5 - 1 5 10 3 2 7 - 4 2	- 3) 1) 4) 1) 7) 2) - 29 36) 1) ₁ 19) 15) 4) 9) 7)	4 3 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Females All causes Tuberculosis, respiratory Malignant neoplasm, stomach Malignant neoplasm, lung bronchus Malignant neoplasm, breast Malignant neoplasm, uterus Other Malig. and lymph. neoplasm Leukaemia, aleukaemia Diabetes Vasc.lesions of nervous system Coronary disease, angina Hypertension with heart disease Other heart disease Other circulatory disease Influenza Pneumonia Bronchitis Other diseases of resp.system Ulcer of stomach and duodenum Gastritis, enteritis & diarrhoea	272 35 411 37 21 36 56 421 245 17 13	5		3	2	4	4 1 - 1 - 1	one one	2 - 1 4 1 5	1 1 2 1 - - 2 7 - 1 1 1 1	1 2 - 5 - 1 5 10 3 2 7 - 4 2	- 3) 1) 4) 1) 7) 2) - 29 36) 1)1 19) 15) 4) 9) 7)	4 ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±
Females All causes Tuberculosis, respiratory Malignant neoplasm, stomach Malignant neoplasm, lung bronchus Malignant neoplasm, breast Malignant neoplasm, uterus Other Malig. and lymph. neoplasm Leukaemia, aleukaemia Diabetes Vasc.lesions of nervous system Coronary disease, angina Hypertension with heart disease Other circulatory disease Influenza Pneumonia Bronchitis Other diseases of resp.system Ulcer of stomach and duodenum Gastritis, enteritis & diarrhoea Nephritis and nephrosis	2 272 3 5 4 11 3 7 2 1 36 56 4 21 24 5 17 13 4 2 3	5		3	2	4	4 1 - 1 - 1	one one	2 - 1 4 1 5	1 1 2 1 - - 2 7 - 1 1 1 1	1 2 - 5 - 1 5 10 3 2 7 - 4 2	- 3) 1) 4) 1) 7) 2) - 29 36) 1) ₁ 19) 15) 4) 9) 7)	4 4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Females All causes Tuberculosis, respiratory Malignant neoplasm, stomach Malignant neoplasm, lung bronchus Malignant neoplasm, breast Malignant neoplasm, uterus Other Malig. and lymph. neoplasm Leukaemia, aleukaemia Diabetes Vasc.lesions of nervous system Coronary disease, angina Hypertension with heart disease Other heart disease Other circulatory disease Influenza Pneumonia Bronchitis Other diseases of resp.system Ulcer of stomach and duodenum Gastritis, enteritis & diarrhoea	2 272 3 5 4 11 3 6 56 4 21 24 5 17 13 4 2 3 1	5		3	2	4	4	one one	2 - 1 4 1 5	1 1 2 1 - - 2 7 - 1 1 1 1	1 2 - 5 - 1 5 10 3 2 7 - 4 2	- 3) 1) 4) 1) 7) 2) - 29 36) 1)1 19) 15) 4) 9) 7) 1)	4 3 5 Le 10 1
Females All causes Tuberculosis, respiratory Malignant neoplasm, stomach Malignant neoplasm, lung bronchus Malignant neoplasm, breast Malignant neoplasm, uterus Other Malig. and lymph. neoplasm Leukaemia, aleukaemia Diabetes Vasc.lesions of nervous system Coronary disease, angina Hypertension with heart disease Other heart disease Other circulatory disease Influenza Pneumonia Bronchitis Other diseases of resp. system Ulcer of stomach and duodenum Gastritis, enteritis & diarrhoea Nephritis and nephrosis Pregnancy, childbirth, abortion Congenital malformations Other def. and ill-def. diseases	2 272 3 5 4 11 3 7 2 1 36 5 4 21 24 5 17 13 4 2 3 1 1 4 2 7					4	4	one one	2 - 1 4 1 5	1 1 2 1 - - 2 7 - 1 1 1 1	1 2 - 5 - 1 5 10 3 2 7 - 4 2	- 3) 1) 4) 1) 7) 2) - 29 36) 1) ₁ 19) 15) 4) 9) 7)	4 3 0 in the letter of the let
Females All causes Tuberculosis, respiratory Malignant neoplasm, stomach Malignant neoplasm, lung bronchus Malignant neoplasm, breast Malignant neoplasm, uterus Other Malig. and lymph. neoplasm Leukaemia, aleukaemia Diabetes Vasc.lesions of nervous system Coronary disease, angina Hypertension with heart disease Other circulatory disease Influenza Pneumonia Bronchitis Other diseases of resp.system Ulcer of stomach and duodenum Gastritis, enteritis & diarrhoea Nephritis and nephrosis Pregnancy, childbirth, abortion Congenital malformations Other def. and ill-def.diseases Motor vehicle accidents	2 272 3 5 4 11 3 7 2 1 3 6 5 6 4 21 24 5 17 13 4 2 3 1 1 4 2 7 3						4	one one	2 - 1 4 1 5 3 1	1 1 2 1 1 1 1 1 2	1 2 - 5 - 1 5 10 3 2 7 - 4 2 1 -	- 3) 1) 4) 1) 7) 2) - 29 36) 1)1 19) 15) 4) 9) 7) 1) -	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Females All causes Tuberculosis, respiratory Malignant neoplasm, stomach Malignant neoplasm, lung bronchus Malignant neoplasm, breast Malignant neoplasm, uterus Other Malig. and lymph. neoplasm Leukaemia, aleukaemia Diabetes Vasc.lesions of nervous system Coronary disease, angina Hypertension with heart disease Other heart disease Other circulatory disease Influenza Pneumonia Bronchitis Other diseases of resp. system Ulcer of stomach and duodenum Gastritis, enteritis & diarrhoea Nephritis and nephrosis Pregnancy, childbirth, abortion Congenital malformations Other def. and ill-def. diseases	2 272 3 5 4 11 3 7 2 1 36 5 4 21 24 5 17 13 4 2 3 1 1 4 2 7						4	one one	2 - 1 4 1 5 3 1	1 1 2 1 1 1 1 1 2	1 2 - 5 - 1 5 10 3 2 7 - 4 2 1 -	- 3) 1) 4) 1) 7) 2) - 29 36) 1)1 19) 15) 4) 9) 7) 1)	ide de de

TABLE IV - CAUSES OF DEATH ACCORDING TO AGE Compiled locally

	ω	weeks	yr										
	a පිලිල ස	er 4	wks-1		4	14	24	34	44	54	64	74	
	A11	Under	4 w]		2	5 -	15 -	25 -	35 -	45 -	55 -	- 69	75+
All causes	573	13	7	1	3	3	9	6	9	51	91	124	257
Tuberculosis, respiratory	8	****	essity	-	-	380	CMES		1	2	4	-	1
Tuberculosis, other Syphilitic disease	- 1.	_	_	_	_	_	_	-	_	_	٦	_	-
Dyphtheria	_	_	_	_	_	_	_	_	_	_	_	_	_
Whooping cough	-	-	-	-	-	-	-	-	_	-	-	-	-
Meningococcal infections	-	-	-	-	-	-	-	-	-	-	-	-	-
Acute poliomyelitis Measles	_	_	_	_	_	_	_	_	_	-	_	_	_
Other infective and parasitic	_	_	_	_	_	_	_	_	_	_	_	_	_
diseases													
Malignant neoplasm, stomach	15	-	-	-	-	-	-	-	-	-	5	3	7
Malignant neoplasm, lung bronchus	25	-	-	-	-	-	-	1	-	2	14	6	2
Malignant neoplasm, breast	12	_	_	_	_	_	_	_	_	4	1	2	5
Malignant neoplasm, uterus	3	-	-	-	-	coun	-	-	1	1	_		1
Other malignant and lymphatic neoplasms	48	-	-	-	-	-	-	-	1	12	10	13	12
Leukaemia and aleukaemia	4	COM	-	-	1	-	_	-	_	den den	1	-	2
Diabetes	4	œ	æ	-	_	_	_	_	-	350	1	1	2
	,										_		
Vascular lesions of nervous system	57	-	-	-	-	-	-	-	-	1	8	8	40
Coronary disease, angina	125	-	-	-	-	-	-	-	2	14	22	29	58
Hypertension with heart disease	6	-	_	-	-	-	-	-	_	1	_	4	1
Other heart disease	40	-	-	1		-	-	-	1	1	2	7	28
Other circulatory disease	39	-	-	-	-	_	-	-	Т	1	4	14	19
Influenza Pneumonia	8 38	-	- 3 2	-	-	1	-	-	-	2	1 2	7	6 22
Bronchitis	28	_	2	_	1 -	_	ī	1 - 1	_	2		7	12
Other diseases of the	9	_	_	-	-	-	_	1	_	ĺ	i		6
respiratory system											_		0
Ulcer of stomach and duodenum Jastritis, enteritis and	6		-	-	_	-	-		-	****	2	2	2
diarrhoea	4	_	_	_	_	_	_	1	_	_	_	1	2
Wephritis and nephrosis	3	-	-	-	-	-	-	-	-	-	1	2	_
Typerplasia of prostate	3 1	-	-	-	com	com	can .	- 1	-	-	-	-	3
Pregnancy, childbirth and abortion	Т	-	-	-	-	-	-	Т	-	_	-	-	-
Congenital malformations	8	6	1	_	_	_	_	-	_	_	_	1	_
ther defined and ill-defined	60	7	1	-	-	1	5	ī	2	2	5	13	23
diseases lotor vehicle accidents	_					7	0			0	1	0	
ill other accidents	8 7 3	-	_	_	ī	_	2	-	_	2	_	2	2
Juicide	3	-	_	_	_	-	1 -	-	_	1	1		1
lomicide and operations of war	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE V - CAUSES OF DEATH

Ages 75 and over (compiled locally)
MALE

			FEMALE								
	Total males & females	Total	75-79	80~84	85-89	90-94	Total	75-79	80-84	85-89	90-94
All causes	258	108	40	38	20	10	150	55	37	38	18
Tuberculosis, respiratory Tuberculosis, other Syphilitic disease Diphtheria Whooping cough Meningococcal infections Acute poliomyelitis	1 - - - -	1 - - - - -		-	1						
Measles Other infective and parasitic diseases	-	-	-	-	-	-		-		-	-
Malignant neoplasm, stomach Malignant neoplasm, lung bronchus Malignant neoplasm, breast Malignant neoplasm, uterus Other malignant and lymphatic neoplasms	7 2 5 1 12	2 1 - 7	1 1 - 2	1 - - - 3	- - - 2	-	5 1 5 1 5	. 2 1 3 1 2	1 - 1 - 1	2 1	- 1 - 1
Leukaemia, aleukaemia	2	-	-	-	-	-	2	1	1	-	-
Diabetes	2	2	1	1	-	Calco	-	-	-	-	-
Vascular lesions of nervous system	40	11	6	3	1	1	29	10	7	11	1
Coronary disease, angina Hypertension with heart disease Other heart disease Other circulatory disease Influenza Pneumonia Bronchitis Other diseases of the respiratory	58 1 28 19 6 22 12 6	24 - 7 7 .1 14 6 5	- 2 3 - 3	9 - 3 2 - 5 2 3	3 - 1 - 1 4 - 1	1 2 - 2 1 -	34 1 21 12 5 8 6	16 - 6 3 1 3 1	6 3 1 1 4 1	8 1 5 3 1 3	3 - 4 2 2 1
system . Ulcer of stomach & duodenum Gastritis, enteritis and	2	2	-	2 -	- -	-	- 2	- 2	-	-	-
diarrhoea Nephritis and nephrosis Hyperplasia of prostate Congenital malformations Other defined and ill-defined	- 3 - 24	- 3 - 13	- 2 - 4	- - 3	- - - 5	- 1 - 1	- 11	- - 2	- - 4	- - 2	3 -
diseases Motor vehicle accidents All other accidents Suicide	- 2 1	- 1 1	-	1 -	- - 1	-	1	- 1 -			-

TABLE VI - DEATHS BY QUARTER AND PLACE

Deaths assigned to R.D. Mental hospital deaths Non-institutional de	aths	1	qr. .94 .25 .69	1	qr. 21 13 08	1	qr. 22 15 07	1	qr. 36 10 26	Year 573 63 510
1	960 961 962 963	1	.27 .64 .70 .94	1	.24 .07 .22 .21	1	89 28 12 22	1 1	16 34 54 36	456 533 558 573
Dartford R.D. 1 adjusted by C.F. 1	960 961 962 963	13 14	3 6 1	8 10	0 8).1	10 9	.9 .5 .3	10 11 12 10	•1 •7	10.1 11.0 11.5 11.2
1 1	960 961 962 963	15 15	5.6 5.5 7.0	10 11	0.9 0.9 0.1	9	.8 .5 .4	12 11 11 11	。9 。9	11.5 12.0 11.9 12.2
NON-INSTITUTIONAL DEATHS	BY PLAC	E OF	OCCU	RREN	CE					
All ages		M	F	M	F	M	F	M	F	P
Home Hospital Elsewhere		29 55 2	39 43 1	23 39 2	17 27	20 44 3	11 28 1	20 41 1	32 29 3	191 306 <u>13</u>
		86	83	64	44	67	40	62	64	510
Aged 75+ Home Hospital Elsewhere		10 32	24 23	7 11	7 17	6 15	6 14	7 13	18 19 1	85 144 1
22.50411010		42	47	18	24	21	20	20	38	230
NON-INSTITUTIONAL DEATHS	AS PERC	ENTA	GE OF	ALI	DEA	THS				
All ages Home Hospital Elsewhere		34 64 2	46 52 2	35 61 4	39 61	30 65 5	27 70 3	32 65	50 46 4	36 61 3
3 130 W1010		100		100		100		100		100
Aged 75+ Home Hospital Elsewhere		23 77 - 100	50 49 1	39 61 -	29 71 -	29 71 - 100	30 70 -	36 64 - 100	48 50 2	36 61 3 100
Deaths in Hospital		100	100	100	100	100	100	100	100	100
1962 all ages aged 75+	Dartf	ord 73% 75%	0	Da		rd R.D 57% 50%	0		flee 49% 47%	t U.D.
1963 all ages aged 75+		72% 72%	,			61% 61%			48% 43%	
Deaths at ages of 65 and	over as	per	centa	age c	of de	aths a	t al	l ages	•	
65 t Dartford R.D. 1961 139 26% 1962 120 22% 1963 123 23%	o 74 England	1 & W 26% 26% 25%	Vales		Dart 247 258 258	ford R 4 4		s and Engl	and 4 4	& Wales 3% 3% 3%

TABLE VII - MAIN CAUSES OF DEATH - 1963

By month and quarter (compiled locally)

All All ages cause		Other causes di	Circ:	Cancer	Vasc.les. Resp: N.S. disease
January 62 February 48 March 84 lst qr. April 45 May 41 June 35 2nd qr. July 48 August 40 September 34 3rd qr. October 37 November 37 December 62 4th qr. Year	50 35 76 194 161 31 33 26 121 90 41 28 29 122 98 30 51 136 573 458	14 8 9 31 7 12 5	27 15 31 73 17 12 17 46 21 8 14 43 13 16 19 48 210	7 4 13 24 5 11 7 23 14 13 7 34 7 5 14 26 107	8 8 4 12 10 21 22 41 4 5 3 7 1 1 8 13 3 3 5 3 4 5 5 3 4 5 5 13 8 13 3 3 4 5 5 13 13 8 5 13 13 8 5 13 13 8 5 13 13 8 5 13 13 8 5 13 8 13 8 13 8 13 8 13 8 13 8 13 8 13 8 13 8 13 8 13
O-74 January 33 February 18 March 42 lst qr. April 23 May 25 June 24 2nd qr. July 34 August 26 September 16 3rd qr. October 20 November 19 December 35 4th qr. Year	23 12 37 93 72 14 22 17 72 53 28 16 13 76 57 14 14 27 74 55 315 237	9 3 7 19 6 10 3 19 6 5	13 6 13 32 7 6 11 24 13 7 23 7 8 10	4 3 9 16 4 9 5 18 12 10 5 27 6 2 9	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
January 29 February 30 March 42 lst.qr. April 22 May 16 June 11 2nd qr. July 14 August 14 September 18 3rd qr. October 17 November 18 December 27 4th qr. Year	27 23 39 101 89 17 11 9 49 37 13 12 16 46 41 14 16 24 62 258 54	5 5 2 12 1 2 2 5 3 2	14 9 18 41 10 6 6 22 8 5 7 20 6 8 9	3 1 4 8 1 2 2 5 2 3 2 7 1 3 5	5 5 10 10 11 26 3 3 3 1 4 6 2 1 4 5 2 1 4 5 2 3 7 7 11 40 11 46

TABLE VII - MAIN CAUSES OF DEATH (continued)

								Wain	causes	
All	ages				•			mo in	Caubeb	
		ll uses	Main cause		Other causes		(440-468) irculatory diseases		r Vasc.les	(470-527) Resp. diseases
				Ī	ls perc	entage	of all cau	ses		
Dart	ford 1	Rural 1	Distri	ict (Re	egistra	r Gener	al's figur	es)		
1962		560	464		96		189	107		91
% 1063		100% 578		3% 3	17%		34% 214	19% 110		1 <i>6%</i> 86
1/0/	:	100%			19%		37%	19%		15%
Engl	and &	Wales	(Regi	istrar	Genera	l's fig	ures)			
1962		,636			95,957			101,608		
% 1963	572	100%	۶ ۱۳۳ ₋ ۲	3 <i>3%</i> 021 (17%	. 2	38% 13 , 522	18% 102,416	.,	1 <i>3%</i> 80,743
1%	71-	100%	8	33%	95,847 17%	_	37%	18%		14%
Dart	ford 1	Rural 1	Distri	ict (la	ocal fi	gures)				
All		3000			2 71		7.74	n		224
	t qr. d qr.			33% 74%	17% 26%		37% 37%	1 <i>3%</i> 1 <i>7%</i>		22% 11%
3r	d qr.	100%	8	30%	20%		35%	28%	10%	7%
	h qr. ar		-	30% 30%	20% 20%		<u>35%</u> 36%	19% 19%		<u>16%</u> 15%
		,		,0,0	20,0) ⁰ / ⁰			± <i>)</i> /°
	0⊶74 t qr.	years	7	77%	23%		34%	17%	9%	17%
2n	d qr.	100%	7	74%	26%		33%	25%	6%	10%
	d qr.			75% 74%	25% 26%		30% 31%	36% 23%	3%	7% 1 1%
	ar	100%	$\frac{1}{7}$	75%	25%		33%	25%	5%	12%
Aged	75+									
ls	t qr.	100%		38%	12%		41% 45% 44% <u>37%</u> 41%	8%	14%	26%
	d qr.) E	7 <i>6%</i> 3 <i>9%</i>	24% 11%		45% 44%	10% 15%	24%	12% 6%
4t	h qr.	100%	<u>8</u>	37% 36%	13% 14%		37%	14% 11%	$\begin{array}{ccc} & 18\% \\ & 16\% \end{array}$	6% <u>18%</u> 18%
Ye	ar	100%	5	36%	14%		41%	11%	5 16%	18%
Dist	ribut	ion of	death	ns from	n each	main ca	use betwee	n two ag	ge groups as %	of all ages
Dart	ford 1	Rural I	Distri	ict						
	0-74 t qr.	years 48%	/	15%	64%		44%	67%	36%	38%
2n	d qr.	59%	5	59%	61%		52%	78%	50%	54%
3r	d qr	62%		58%	79%		54%	80%	15%	62%
Ye	h qr. ar	55%	2	50% 52%	70% 68%		52% 54% 52% 50%	80% 65% 73%	<u>21%</u> 30%	<u>48%</u> 45%
	75+				·					
	t qr.			55%	36% 30%		56% 48%	33%	64%	62% 1.6%
	d qr.			41% 42%	39% 21%		48% 46%	22% 20%	50% 5 85%	46% 38%
4t	h qr.			5 <u>0%</u> 48%	<u>30%</u> 32%		<u>48%</u> 50%	<u>35%</u> 27%	79%	<u>52%</u> 55%
1e	ar	45%		10%	52%		50%	21%	10%	55%

TABLE VII - MAIN CAUSES OF DEATH (continued)

Aged 75 and over

Deaths from Respiratory Disease

Deaths during whole years.

Aged 0 - 74 years

	rged 0 -	14 years		Ageu /) ai.	ia ovet		
1958 1959 1960 1961 1962 1963	Respiratory disease 36 32 26 25 40 39	All causes 282 273 267 286 301 314	% Respiratory 13% 12% 10% 9% 13% 13% 12%	Respiratory disease 40 36 26 47 50 46	All causes 211 210 189 247 257 258	% Respirate 19% 17% 14% 19% 19% 18%	ory
Deaths 1958 1959 1960 1961 1962 1963	during first 13 12 12 12 11 21 17	quarters. 102 80 71 72 86 92	13% 15% 17% 15% 24% 17%	20 16 8 26 23 26	72 77 56 92 86 101	28% 21% 14% 28% 27% 26%	
	1958 1959 1960 1961 1962 1963	Virus A2 No influe Virus A2 Virus B i	enza the whole influenza fir influenza firs	nza first quar e year	Fog 3rd to		

TABLE VIII - PREVALENCE OF INFECTIOUS DISEASES

Notifiable Diseases (other than tuberculosis)

Disease										
General Population	Total	0-1	1-3	3 - 5	5-10	10-15	15-25	25-45	45-65+	- Age?
Typhoid fever	-	-			-	-		tent		Owo
Measles	1064	32	204	314	477	8	5	2		22
Whooping cough	43	5	7	5	23	1	1	1	Stote	960
Scarlet fever	17	1	3	2	11			dam.	1944	WAS
Pneumonia	3		****			_	-	2	1	1969
Dysentery	21	_	2	3	7	-	took	7	2	***
Food poisoning	1	-	_	_	_			-	1	-
Paratyphoid fever			_	con	_	-	040		789	-
	1149	38	216	324	518	9	6	12	4	22

Residential Institutions of more than 100 population

There was none.

Measles (according to date of notification)

	No	vemb	er	Decen	nber	Ja	nuar	y F	ebrua	ry I	March	Ap	ril	T	otal	
1954-1955		1		1			5		4		43	7	'6		130	
1955 - 1956 1956 - 1957		-		1		э.	- 16		2 26		157	11	4		7	
1957-1958		-					1		20		153	1.1	.9 3		314 4	
1958-1959		15		70		1	13		106		58	3	52		394	
1959-1960		-		2			-		940		980		-		2	
1960-1961		11		15		3:	12		528		306	11	.7	1	289	
1961-1962		2		 1			_		~~ ~~		7.60	0.7	~		2	
1962 - 1963 1963 - 1964		44		34		(65		30 1		162 1	23	6		567 8	
1707-1704		_		_			-	ă	Т		Τ.	ne	O		O	
January February March April May June July August September October November December	I I I I I I I I I I I I I I I I I I I	1523	1 2 3 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Hartley	1141 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	- 1 5 1 1 8 8 1 1 2 West Kingsdown		1 1 1 1 2 Southfleet	900 Stone 8		A 4 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	001	TVIOL 68 31 123 254 137 284 129 35 2 1 -	
Total for year	3	38	7 5	28	8	2	33	108	10	28	177	48	262	244	1064	

Non-notifiable diseases

The following non-notifiable diseases were reported from the Schools:

German measles 5 Chicken pox 56 Pink eye 1 Mumps 21

TABLE IX - TUBERCULOSIS

(a) RESPIRATORY

NOTIFICATIONS

Year		Year		Year	
1955	36	1958	25	1961	23
1956	29	1959	27	1962	20
1957	33	1960	25	1963	14

NOTIFICATIONS BY AGE

Total	0-14	15-19	20-24	25-34	35-44	45-54	55-64	65+	
Males 9	-	-	1	1	1	2	3	1	
Females 5	~	-	-	1	1	2	11	-	
14	_	_	1	2	2	4	4	1	

Of the 9 males, 5 were infectious, they were aged 38, 49, 53, 61 and 79 years. 3 were non-infectious. The diagnosis of one was changed to Carcinoma of the bronchus.

Of the 5 females, one was infectious, a housewife aged 42 years and 4 were were known not to be infectious.

2 males and one female of the above cases were really transferred in from another district - all non-infectious.

NUMBER OF CASES OF RESPIRATORY TUBERCULOSIS ON THE REGISTER

ons
.0
.7
5
8
2
1

CHANGES IN REGISTER

Additions 1963		Removals 1963	
New notifications	14	Left district	12
Came into district	35	Diagnosis not confirmed	1
Restored to register	_3	Lost sight of	3
	52	Died	12
		Recovered	20
			48

(b) NON-RESPIRATORY

NOTIFICATIONS IN RECENT YEARS

1955	7	1958	4	1961	3
1956	1	1959	10	1962	2
1957	3	1960	5	1963	1

The one notification in 1963 was a male aged 32 with tuberculous glands of neck.

NUMBER OF CASES OF NON-PULMONARY TUBERCULOSIS ON REGISTER AT DECEMBER 31st.

	Male	Female	Persons		Male	Female	Persons
1955	28	30	58	1959	22	19	41
1956	29	30	59	1960	23	23	46
1957	28	27	55	1961	23	24	47
1958	23	16	39	1962	22	23	45
				1963	19	21	40

CHANGES IN REGISTER IN 1963

Additions New notifications Came into district	1 1 2	Removals Left district Recovered	2 5 7
	2		7

TABLE IX - TUBERCULOSIS

(c) RESPIRATORY (continued)

MASS X-RAY SI	ERVIC	E, 19	963			Rout	inc					
				vice	Mass		ine y Servi	ice				
	Indus	stry	Pub	lic	Indu	stry*	Publ	lic		tal		
	M	F	M	F	M	F	M	F	M	F	Persons	
No.X-rayed Active	699	20	297	108	35 7	277	-	-	1353	405	1758	
Tuberculosis	1	-	1	-	-	-	-	-	2	-	2	
Incidence %	1%	o =	3%	o -	-	-	-	-	1.5%	00 =	1.2%	
NOT PREVIOUS	LY X-I	RAYEI) (in	cluded	in ab	ove)						
No.X-rayed	146	6	97	61	85	128	-	-	328	195	523	
Cuberculosis		-	1		_	_	oso.	-	1	'æ	1	
Incidence %	Q to	æ	10%	c -	o=	neen .	-	-	3.1%	e -	1.9%0	
* includes	s 239	male	es an	d 256	female	s at	College	es,h	ospita	ls, et	ic.	
ON-TUBERCULO	OSIS (CASES	FOU.	ND								
							Mal	Le	Femal	е	Persons	
Carcino		bror	nchus				1		œ		1	
Sarcoid							1		-		1	
Pneumon		: ~					1		2		3	
Bronchie Asbestos		ıs					1		1		1	
Diaphra		. Her	rnia.						ī		1	
Hiatus 1			11.1.00				-		2		2	
Still u			stiga	tion			1		1.		2	
Cardio	vascu:	lar I	lesio	ns			5		4		9	
Abnorma							38		7		45	
Failed '	to at	tend	for	invest	igatio	n	cato		2		2	
ARTFORD CHES	ST CLI	INIC.	. T	his R.	D. has	a qua	arter o		ne pop 960	ulatio 1961	n served. 1962	1963
tal persons	s atte	endir	e fo	r firs	t time		1,688	1.6	593			1,528
(a) Refer					•						1,217	
(b) Contac									506	356	448	425
	other	sour	ces,	e.g.tr	ansfer	S	85		53	79	50	47
w cases (a) Active							95		79	50	57	50
(b) Non-pu (c) Bronch				culosi	.S				13	14 23		10
und to be		_		e			Not re	cor(ied .	2)	39	34
(a) New ca	ases						42		39	21	25	27
(b) Old ca	ases						31		14	9	24	16
tal attenda			, .	7.			7,695	7,	797	7,197	7,328	
(a) Total (b) Avera					person		3,595		536	3,342	3,576	
(a) WAGISE	5 0 all	enur	rance	e ber	berson		2.2	- 2	2.2	2.15	2.05	. 2.00

In addition some 500 other conditions were found each year.

TABLE IX TUBERCULOSIS (d) RESPIRATORY (continued)

DEATHS OF PERSONS SUFFERING FROM TUBERCULOSIS

Persons removed from the tuberculosis register in 1963 following death.

Year born n (males)	Year otified	Cause of death Underlying	Contributory	Year died	Infectiou when diagnosed
1876	. 1958	la. Chr.bronchitis b. Chr.pul.tuberculosis	ge.	1963	Yes
1884	1944	la. Bronchopneumonia	œ	1963	No
1894	1953	c. Perforated diverticulitis of colon		1963	Yes
1896	1952	la.Haemoptysis b.Chr.pul.tuberculosis c.Carcinoma of bronchus		1963	Yes
1905	1955	la.Cor pulmonale b.Chr.bronchitis and emphysema	•	1962	No
1914	1963	la.Coronary thrombosis	Pul.tuberculosis	1963	Yes
1902	1943	<pre>la.Cor pulmonale b.Chr.pul.fibrosis and emphysema c.Chr.pul.tuberculosis</pre>	Mental sub- normality	1963	Yes
1929	.1963	la.Carcinoma of bronchus		1963	No
1900	1949	<pre>la.Resp.failure b.Chr.bilateral(massive) tuberculosis lungs</pre>	Severe sub- normality	1963	?
1924	1963	la. Tuberculous meningitis b. Pul. tuberculosis	•	1963	Yes
(females	3)				- 1
1908	1957	la.Bronchopneumonia b.Chr.pul.tuberculosis	Severe sub- normality	1963	?
1918	1954	la.Spontaneous pneumothorax b.Pul.tuberculosis	Mongolism	1963	?

Deaths from tubercu	alosis of persons not on to	uberculosis register.		14	H
1903 not (male) notified	la.Pul.tuberculosis	Bronchitis and bronchiectasis	1963	tuber- culos: doubt:1	1 1
1912 not	la.Miliary tuberculosis b.Pul.tuberculosis	-	1963	(pos.) (sputh) (termina) Diagnos	-63

p.m.

(female)notified

TABLE X - VACCINATIONS

Virus Diseases

(a) POLIOMYELITIS

Vaccination doses received in the five years ending Dec. 31st. 1963

Second doses

Born	1959 Injected	1960 Injected	1961 Injected	196 Injected		1963 Injected	Oral	1959-63 Total
1957-1963 1943-1956 1933-1942 1921-1932 Others	1314	787 115 224 1389	1029 214 341 1329 29	170 71 63) 144)	739 35 79 181	3 	1025 13 37 44	4730 1762)) 6159
	4590	2515	2942	448	1034	3	1119	12651

Third doses

Born	1959 Injected	1960 Injected	1961 Injected	190 Oral & Injected	Oral	1963 Oral & Injected	Oral	1959-63 Total
1957-1963 1943-1956 1933-1942 1921-1932 Others	5832	902 895 1458 827	915 538) 370) 1258) 39	873 213 272 992)	739 35 79 181	109 10 15 17	1025 13 37 44	5432 7536)) 6492
	7604	4082	3120	2350	1034	151	1119	19460

Percentage of young population vaccinated 1959-63

Born	Born Estimated N population 2		% of population	Total * 3rd dose	% of population
1957 - 63	7253	4730	65%	5432	75%
1943-56	8208	1762	21%	·7536	92%
1943-63	15461	6492	42%	12968	84%

^{*} Vaccination began in 1956, some of those receiving 3rd doses received leir second doses in 1956, 1957 or 1958. 2nd doses of incoming population of recorded here when given before arrival. Thus more with 3rd doses than the 2nd doses within five years 1958-63.

Fourth doses

Born	Estimated population	4th dose 1961	4th dose 1962	4th dose 1963	Total	Percentage
1952-58	4718	3257	597	569	4423	94%

MPARISON WITH OTHER AREAS: Vaccinations in five years 1959-63 of those born 43-63 expressed as a percentage of estimated population.

Dartford R.D.	Dartford Borough	Northfleet U.D.	Kent A.C.*
---------------	------------------	-----------------	------------

 2nd dose
 42%
 36%
 34%
 ?

 3rd dose
 84%
 74%
 72%
 81%

^{*} Vaccinations since 1956 for Kent A.C.

TABLE X - VACCINATIONS (continued) (b) SMALLPOX

NUMBERS VACCINATED AND REVACCINATED by age at date of vaccination.

			Vaccinated			
Year	UNDER 1 year	l year	2 - 4	5 - 15	15 or over	Total
1963 1962 1961 1959 1958	? 876 702 646 447	217 106 50 4	? 187 27 4	? 574 20 12 4	? 776 21 13 12	? 2519 820 735 492
		Re	vaccinated			
1963	ş	?	?	2*	?	?
1962	-	10	98	886	1838	2832
1961	-		2	4	3	9
1951			·	4	7	11
1958	œ		2	14	13	29
			* Age 5-7	years		

For the year 1960 figures on these lines were not available.

INFANT VACCINATION RATE

Up to the end of 1961 most infants who were vaccinated were vaccinated in the first year of life but in 1962 more infants than in former years were vaccinated at a later age. In 1963 the second year of life was advocated as an age for vaccination. The percentage of the number of births in a given year of those vaccinated while under one year of age in that year is used here as a vaccination rate up to 1962.

	Number of live births	Number vaccinated under 1 year	Percentage of births of those vaccinated
1963	1203	records no longer kept	?
1962	1187	876	74% 61%
1961	1159	702	61%

SECOND YEAR VACCINATION RATE

With practice changing to vaccination in the second year of life the County no longer record vaccinations at ages under 1 year. The appropriate rate in future will be the vaccinations done as a percentage of infants surviving to the age of one year.

	Infants aged 1 year in January	Vaccinations done at ages 12 - 23 months	Percentage
1963	1168	217	19%
1962	1142	106	9%
1961	1045	50	5%

SCHOOL CHILD IMMUNITY DECEMBER 1963

Estimated population aged 5-14 Born 1949-58	Vaccinated or Revaccin- ated before 1962 in school years	Vaccin- ated 1962 574 x 0.9‡	Revaccin- ated 1962 886 x 0.9‡	Vaccin- ated 1963	Revaccin- ated 1963	ated or revaccinated in	immun- ity
6346	say 120*	517	797	say 10	2**	1446	23%

^{*} roughly 15 a year

i.e. 1/10 left school by 1963

^{**} age 5 - 7 years

TABLE X - VACCINATIONS (continued)

(b) SMALLPOX (continued)

SCHOOL CHILD REVACCINATIONS DECEMBER 1963 (approximately)

Av.Infant vaccin- ation rate 1949-58	No.eligible for revaccin- ation 6346 x 0.55	Revaccin- ated before 1962 in school yrs (about 10 per year)	Revaccin- ated 1962 886 x 0.9	1963	Revaccin- ated Before Dec.1963 in school	with immunity from
55%	3500	80	797	2	879	25%

COMPARISONS WITH OTHER AREAS

1962	Dartford	Dartford	Kent	England Northfleet
1962	Rural Dis.	Borough	A. C	& Wales U.D.
Percentage of 1962 births				
of those vaccinated under 1 year	74%	72%	63%	49% 59%
1963 Percentage of those aged 1 years instead	ear 19%	18%	17%	10% 23%

Bacterial Diseases

(c) DIPHTHERIA

NUMBER VACCINATED

	Age at 31st December	Primary inoculations done in the year	Reinforcing inoculations done in the year
.963	0 - 4 years	1047	834
1	5 -14 years	3	460
.962	0 - 4 years	976	509
	5 -14 years	31	369
961	0 - 4 years	1125	428
	5 -14 years	159	763
960	0 - 4 years	1022	132
	5 -14 years	43	328

The above include courses completed for diphtheria alone and diphtheria/stanus or diphtheria/whooping cough/tetanus combined.

RIMARY VACCINATIONS 0 - 4 years December 1963

	Estimated							
Born	1959	1960	1961	1962	1963	1959-63	population Dec. 1963	
1963 1962 1961 1960 1959	- - - 190	- - 412 525	- 453 506 74	- 430 516 18 8	514 513 13 5 2	514 943 982 941 799	1183 1168 1142 1045 968	
tal ccin-	190	937	1033	972	1047	4179	5506	

TABLE X - VACCINATIONS (continued)

(c) DIPHTHERIA (continued)

PERCENTAGE OF O - 4 POPULATION VACCINATED

Born	1959	1960	1961	1962	1963	Total vaccinated 1959-1963
1963 1962 1961 1960 1959	- - - - 20%	- - - 39% 54%	40% 49% 8%	- 37% 45% 2% 1%	43% 44% 1% 0% 0%	43% 81% 86% 90% 83%
% of those vaccinated by Dec.1963	5%	22%	25%	23%	25%	100%
% of 0 - 4 population of 1963 vaccinated	3%	17%	19%	18%	19%	76%

COMPARISON WITH OTHER AREAS

Dartford Dartford Northfleet Kent Rural Dis. Borough U.D. A. C. Percentage of estimated population 81% 84% 82% 80% born 1962 vaccinated in 1962 or 1963

(1) WITCODTTIG CON

(d) WHOOPING COUGH

PRIMARY VACCINATIONS

Year	Age at 31st December	Age at 31st December
	0 - 4 years	5 - 14 years
1963	1018	1
1962	953	6
1961	1060	57
1960	938	23

PRIMARY VACCINATIONS OF THOSE AGED 0 - 4 years on 31st DECEMBER, 1963.

Born	1959	1960	1961	1962	1963	1959-63	Estimated Population Dec.1963
1963 1962 1961 1960 1959	- - - 357	- 413 469	- 452 499 53	425 506 14 5	509 496 9 3	509 921 967 929 885	1183 1168 1142 1045 968
Total vaccinated	. 357	882	1004	950	1018	4211	5506

TABLE X - VACCINATIONS (continued)

(d) WHOOPING COUGH (continued)

PERCENTAGE OF INFANTS WITH PRIMARY VACCINATION

Born	1959	1960	1961	1962	1963	1959-1963
1963 1962 1961 1960 1959 % of 0-4 vaccinated population Dec.1963	- - 37%	40% 48% 16%	- 40% 48% 5%	- 36% 44% 1% 1%	43% 43% 1% 0% 0%	43% 79% 85% 89% 91%
% of 0-4 total population Dec. 1963	8%	21%	24%	23%	24%	100%

Diphtheria/whooping cough/tetanus combined vaccine was introduced in 1960 hence primary vaccinations from 1960 onwards are similar in number to diphtheria vaccinations.

COMPARISON WITH OTHER AREAS

	Dartford R.D.	Dartford Borough	Northfleet U.D.	Kent A. C.
Percentage of estimated population born 1962 vaccinated in 1962 or 1963	79%	8 <i>3%</i>	81%	80%

(e) TETANUS

In view of the introduction of the combined vaccine in 1960 the numbers of primary vaccinations against tetanus in 1962 and 1963 can be assumed to be almost identical with those of diphtheria vaccination.

(f) TUBERCULOSIS

Children in close contact with patients suffering from tuberculosis are, f necessary, vaccinated with B.C.G. The following vaccinations were arried out at the Chest Clinic, Dartford:-

Children under 15 years of age

	1959	1960	1961	1962	1963
Dartford R.D.	160	139	131	184	119
Dartford Borough	133	126	1.26	129	101

Some persons attend other clinics and therefore, these figures are acomplete.

Vaccination of school children is carried out by the School Health prvices. These children are skin tested and those who do not react are accinated. Those who do react are referred to the Chest Physician for arther investigation. Figures are not available for the Rural District.

TABLE XI - INJURY (a) ACCIDENTS IN THE HOME

Persons receiving in-patient treatment at the Dartford Group of Hospitals (D.G.) and Queen Mary's Hospital, Sidcup, (Q.M.)

Age	Falls		Burns & Scalds		Poiso	Poisoning		Other		Total	
	D.G.	Q.M.	D.G.	Q.M.	D.G.	Q.M.	D.G.	Q.M.	D.G.	Q.M.	
0- 4	2	1	1	2	2	-	6220	6	5	9	
5-64	5	CD	1	4	1	=	as	2	7	6	
65+	3	2	4 5	eso	co		cas	6	3	8	
	10	3	2	6	3	6	-	14	15	23	

Length of stay in hospital in weeks

Under 1 week 1-2-8-12-13+ Cases 6 3 2 1 15 Dartford Group 1 2 1 Queen Mary's 5

No patients were admitted to the Gravesend and N.Kent Hospital for this from R.D. Deaths

Female aged 3: Inhalation of foreign body
" aged 78: Carbon monoxide poisoning due to home on fire
Male aged 54: Coal gas poisoning (open verdict)

(b) MOTOR VEHICLE ACCIDENTS

Casualties(not necessarily R.D. residents) on local roads(Chief Constable's Analysis

Local Authority	Total injury accidents	Killed	Seriously injured	Slightly Ainjured	Total
Dartford R.D.	322	9	135	309	453
Northfleet U.D.	115	1	28	4 122	151
Swanscombe U.D.	63	1	24	57	82
Dartford M.B.	317	4	112	273	389

Dai otora mer	0 1 2+1 1 + 1 ++1	1 217 1 707
Deaths of R.D. resident	s not necessarily on R.D. road	s Place
	Pedestrian/Coach	High Street, Swanley
	Motorcycle/car	
	Passenger in car	ŗ
·	Motorcycle ran off road	?
49 years M	•	
	Car ran off road	Maidstone By-Pass
	Pedestrian/van	Mental Hospital grounds
73 years M	Pedestrian/car	A.20 West Kingsdown
	(c) OTHER ACCIDENTS	
20 years M	Collision between boat and steamer (drowned)	River Thames, Richmond
	(d) SELF NEGLECT	
80 years M	Gangrene in both feet due to frostbite	Outside home
70 years F	Exposure to cold	Caravan, West Kingsdown
	Exposure to cold	11 11
17 3 001 2		
40.000	(e) SUICIDE	~
47 years M	Barbiturate poisoning	Cotton Lane, Stone
55 years F		At home
85 years M	-do-	11 11

ENVIRONMENTAL MATTERS

APPENDIX I - HOUSING

NEW HOUSES: The following dwellings have been completed in the last five years:-

11.0 90010	1959	1960	1961	1962	1963
By Dartford Rural District Council By private enterprise	88 <u>637</u>	131 430	154 513	137 269	108 <u>301</u>
	725	561	667	406	409

HOUSING PROVIDED BY COUNCIL: the effective waiting list of housing applicants at the end of March 1963 and March 1964 numbered 1301 and 1348 respectively (inclusive of engaged couples), the total registered applications for the year ending March 1963 was 1485 and for the year ending March 1964 was 1545 The difference between the effective and total list is due to applicants rehoused or applications cancelled. The number of families rehoused during the last three years have been as follows:-

	Families Rehoused			
	April-March 1961-62	April-March 1962-63	April-March 1963-64	
Ash-cum-Ridley	3	•	4	
Fawkham	í	€	3	
Hartley	2	one one	6	
West Kingsdown	5	9	12	
Longfield	4	2	6	
Southfleet	4	2	5	
Betsham		1	3	
Bean	1	3	1	
Darenth	14	13	2	
Stone	35	24	15	
Eynsford	7	8	1	
Farningham	2	2	3	
Horton Kirby	7	7	4	
South Darenth	4	4	5	
Sutton-at-Hone	5	3	6	
Swanley	40	50	47	
Crockenhill	6	6	9	
Hextable	5	3		
Wilmington	13	7	15	
Hawley	3	2	6	
Outside Rural District	20	24	30	
	181	170	189	

During the above three years 256, 184 and 188 Council tenants were moved to accommodation more suited to their requirements.

HOUSING PRIORITY ON MEDICAL GROUNDS:

Tubercu	10818		Other than Tu	percuro	518
No.of Applications for Council accom.	No.of Points O 1-5 6		No. of Applications for Council accom.	No.of O 1	Points - 5
6	6	œ	78	20	58
Appl.for transfer from Council Tenants					
ONO	a ao a ao	-	20	3	17

Number rehoused after being awarded some degree of medical priority:

Tuberculosis	Other than Tuberculosis
3	47

APPENDIX I - HOUSING (continued)

IMPROVEMENT GRANTS:	Number of Houses
Applications for discretionary grants 1 Applications for standard grants 82	3 85
Total cost for providing discretionary grant amenities Total cost for providing standard grant amenities	£750 (applied for £8215
IMPROVEMENT WORK COMPLETED IN 1963:	
Standard grants: Total amount of grants £6860 Discretionary grants: ditto Nil	60 houses Nil
710 visits were made in connection with this work.	
UNFIT HOUSES MADE FIT:	
	By Local oner Authority
	75 - 15 1 -
REPAIRS: The following are the details of repairs initiate Public Health Inspectors:	ted by the Council's
Water pipes repaired Yard paving repaired Floors repaired Roofs repaired, overhauled and made weatherproof Wall plaster and ceiling plaster repaired Windows repaired including sashcords Rainwater pipes and gutters repaired or renewed Damp proof courses provided External rendering to walls and pointing Chimney stacks and pots Sub floor ventilation improved New sinks provided Sink wastepipes repaired or renewed Flushing cisterns renewed or repaired Soil and ventilating pipes repaired Water closets pans renewed Houses provided with new dustbins Other defects	10 5 13 19 36 32 21 2 7 2 7 2 - 1 1 8 4 10 5 43
Visits paid by the Council's Public Health Inspectors	3,655
RENT ACT, 1957: The following certificates have been received	red and issued:-
Applications received for Certificates of Disrepair Notices issued to landlords (Form J) Undertakings received from landlords (Form K) Certificates of Disrepair issued Applications received for cancellation of Certificates of Disrepair (Form M) Certificates of Disrepair cancelled Certificates issued as to remedying defects (Form P)	3 2 1 2
Visits paid by the Council's Public Health Inspectors	10

APPENDIX I- HOUSING (Continued)

HOUSES DEMOLISHED - HOUSING ACT, 1957		
		Houses
In Clearance Areas: (Housing Act, 1957)		demolished
Houses unfit		10
Not in Clearance Areas:		
As a result of action under section 17		12
Unfit Houses Closed:		
Under sections 16 & 17 etc.		Nil
ADDRESSES OF HOUSES DEMOLISHED OR CLOSED:		
41-59 (odd) Milestone Road, Stone 2 & 4, High Cross Road, Westwood The Hut, Wested Farm, Crockenhill 1-5, Victoria Cottages, Betsham 3 & 4, Green Bungalows, Hulbury 1 & 2, Cherry Tree Cottages, West Kingsdown		
DEMOLITION AND CLOSING ORDERS MADE:		
Number of demolition orders issued Number of closing orders issued Number of undertakings not to be used for habitation		8 Nil 1
PERSONS DISPLACED:		
	Persons	Families
In Clearance Areas: Houses unfit	Nil	Nil
Not in Clearance Areas: As a result of action under Section 17	27	8
CARAVANS:		
The number of sites licensed under the act		29
The total number of caravans permitted by licence on these sites		430
		470
Visits paid by the Council's Public Health Inspectors		101

APPENDIX II - WATER

GATHERING GROUND. The chalk below this district is part of the gathering ground for N.W. Kent. The wells of the Metropolitan Water Board, Mid Kent Water Company and the Medway Water Board draw water from here to supply this and neighbouring districts. The Lullingstone estate has a small supply of its own. One hospital has its own supply which is supplemented with Met. water. Certain factories have their own wells for industrial purposes.

ACCESSIBILITY OF SUPPLY. With a few exceptions, all dwellings have water piped into them from these sources and the quantity is abundant.

QUALITY. Apart from two dwellings on their own domestic supplies, the quality of water supplied generally is excellent.

SOURCES OF SUPPLY AND ACCESSIBILITY

Piped supplies into houses. The estimated position on 31.3.64 was as follows:-

	Parish	Houses	Totals
Metropolitan Water Board	Darenth Crockenhill Eynsford Farningham Horton Kirby Southfleet Stone Sutton-at-Hone Swanley Wilmington	1079 441 546 446 746 392 2162 1131 4037 2258	13238
Mid Kent Water Company	Ash Fawkham Hartley Longfield Southfleet West Kingsdown	312 180 917 609 201 1065	3284
Lullingstone Estate	Eynsford	65)	
Houses on supply of Darenth Park Hospital 1 House supplied by laundry well	Darenth	8)	
Barn End Lane	Wilmington	1 {	
l House supplied by well at A.P.C.M. Clay Pit, Bean	Stone	1 }	75
Supplies not piped into houses			
Domestic well, Clement Street	Sutton-at-Hone	1)	
Rainwater tanks Transported water	West Kingsdown Darenth Farningham	1	
Standpipe (Met.W.B.)	Horton Kirby	<u>1</u>)	6
Piped supplies into hospitals			16603
Metropolitan Water Board	Stone	Stone Hou (Pop.500)	se Hospital
Metropolitan Water Board and Hospital well	Darenth	Darenth Po Mabledon 1 (Pop.2250	Hospitals

APPENDIX II -WATER (continued) QUALITY

Bacteriological Analyses Sampling by water undertakers

	No.of samples	E.coli type I/100 ml.
Metropolitan Water Board Raw water	2173	see table
Treated water	1959	None
Medway Water Board		
Raw water	104	see table
Treated water	103	None
Mid Kent Water Company		
Raw water	12	None
Treated water	12	None

Medway Water Board

Raw water.

No. of results showing stated count

Probable No. per 100 ml.	None	1-9	10-19	20-29	30-39	40-49	50-89	90-180	180+	Samples
Coliform	64	28	3	3	1	1	1	None	3	104
E.coli type l	76	22	3	1	. 1	None	1	None	None	104

Metropolitan Water Board

Raw water

Well	No.of samples	nar ml.		Coliform count		Escheric count	hia coli
		20-24 hours at 37°C.	3 days at 22°C.	% samples negative in 100 ml	Count per	% samples negative in 100 ml	Count per
Darenth Dartford Eynsford No.1 Eynsford No.2 Green St.Green Horton Kirby No.1 Horton Kirby No.2 Lullingstone No.1 Lullingstone No.2 Southfleet Wilmington	251 241 235 122 249 177 196 157 102 246	0.0 1.1 1.7 0.5 0.1 0.0 0.0 9.4 0.3 0.8 0.2	10 167 37 15 42 79 5 57 9 14	99.20 97.93 83.40 91.80 98.39 96.61 97.96 100.0 99.02 98.78 97.97	- 1.4 0.9 0.3 2.5 0.1 0.1	99.20 100.0 99.57 99.18 99.20 98.31 98.47 100.0 100.0	-

APPENDIX II-WATER (continued)

QUALITY (continued)

Sampling by Hospitals

		No.of samples	E.coli type I
Stone House	Treated water	30	None
Darenth Park	Raw water Treated water	24 24	None None
Mabledon Hospital		Nil	
Samp	ling by Council's Public He	ealth Inspectors	
Lullingstone Estate	Treated water	1	6
		5	None
Darenth Wood Farm	Rainwater	2	1 and 180
Ayres Nursery well	Clement Street	3	0
Claypit well, Bean	(Shell Bank Farm)	2	0
Laundry well, Wilmington	n (also one dwelling)	1	0
Factory, Eynsford		1	0

SWIMMING POOLS

There are four pools in this district. All are provided by private enterprise except one, i.e., that of the Education Committee's special school. The latter was not sampled in 1963 as it was undergoing modification. The prival enterprise pools were on continuous circulation and filtration and chlorination. With this system the standard aimed at is that no sample should contain any coliforms in 100 ml. of water; that in 75 per cent of the samples, the plate conshould not exceed 10 colonies and that in the remainder the count should not exceed 100 colonies.

Sour	ce ·	Probable number Coliforms	s per 100 ml. E.coli I	Plate count per ml. 24 hr.37°C
Pool A	Shallow end Deep end	1 0	0	10 6
	Shallow end Deep end	1 1	0	9 20
	Shallow end Deep end	0 1	0	1 0
	Shallow end Deep end	0	- 1 -	1
Pool B	Shallow end Deep end	0	50 5	2 0
	Shallow end Deep end	0		1 3
	Shallow end Deep end	0		20 0
Pool C	Shallow end Deep end	0 0		0
	Shallow end Deep end	0		0
	Shallow end Deep end	0		0

(Milligrammes per litre, averages of results)
Water (continued)

Well	No.of samples	Ammonia Nitrogen	Albuminoid Nitrate Nitrogen Nitroge	d	Chlorides as Chlorine	Oxygen I absorbed rin 4 hrs 3 at 27°C.	Hard- ness Total	Hard- ness (non- carb)	pH	Matural Riuoride as Fluorine	Sodium as Na.	Potass- ium as K	Conduct- ivity, reciprocal
Wet.Water Board													
Darenth	77	0.010	0.015	4.8	18	0.20	566	32	7.1	0.15*	11.0	1.9	480
Dartford	4	0.005	0.016	4.1	21	0.04	278	48	7.1	0.15*	12.0	3.1	510
Eynsford	7	0.003	0,021	3.7	15	0.02	260	30	7.2	* 2.0	0.6	1.2	470
Green St. Green	80	0.014	0.017	6.3	17	0.04	282	30	7.1	0.1 *	11.0	2.0	510
Horton Kirby	ω	0.007	0.018	4.4	19	90.0	264	40	7.2	0.15*	10.0	1.8	490
Lullingstone	9	0.021	0.022	3.4	15	90.0	258	26	7.2		8.5	1.2	480
Southfleet	4	800°0	0.024	5.6	18	90.0	292	28	7.2	0.15*	11.0	1.8	530
Wilmington	K	0.016	910.0	6.9	.53	0.20	282	44	7.2	0.15*	15.0	2.2	550
Medway Water Board													
Fawkham Pumping Stn	9	900.0	00000	5.1	20	0.14#	292	38	7.3	*0.0			514
Mid Kent Water Co.								• • • •					
Hartley Pumping Stn	~	00000	000 0	5.3	15	70.0	275	33	7.3	7.3 < 0.1*			488
Private Supply Lullingstone Estate	г	00000	trace	K	24	0.22	288	. 58	7.9	0.14			

+ Fawkham Pumping Station oxygenabsorbed 3 hrs at 37°C.

* fluoride results of separate samples.

APPENDIX III - DRAINAGE

During the period covered by this report all the 108 dwellings built by the Council and 248 of the 301 dwellings built by private enterprise were connected to the sewer. The remaining 53 dwellings built by private enterprise were connected to cesspools.

The following are the details of the work initiated by the Council's Public Health Inspectors:

	1962	1963
Pail closets abolished and property connected to sewer	1	irae
Pail closets abolished and property connected to cesspool	-	4940
Cesspools abolished and property connected to sewer	246	208
Drainage relaid	_	_
Drains repaired	7	10
Drains cleared	84	72
Covers renewed to inspection chambers and cesspools	3	9
Water tests applied to drains	277	144
Smoke tests applied to drains	2	30

At the end of the year the sanitary accommodation and drainage was approximately as follows:

Dwellings with water closets discharging into sewer Dwellings with water closets discharging into septic tanks Dwellings with water closets discharging into cesspools	13007 181
being emptied	1935
Approx.number of dwellings with water closets discharging into cesspools not emptied	1480
	16603

We are not now aware of any dwellings provided with pail closets or privies. We know of one dwelling with a chemical closet.

Hartley/Longfield/New Barn Sewerage Scheme: The work on this new sewer was continued during the year and 208 properties were connected to the sewer during this time. In 1963 this further extension of the sewer provided for the drainage of the following areas:

Church Road, Hartley
The Drive, Longfield
Fairby Lane, Hartley
Fawkham Avenue, New Barn
Green Street Green
Gorsewood Road, Hartley

Hillview Road, Longfield Longfield Avenue, New Barn Main Road, Longfield New Barn Road, New Barn Poplars Close, New Barn Pescot Avenue, Longfield

Stone Outfall Works: Drainage from the Parish of Stone is to the Stone Outfall Works and owing to the limitations of these Works, the effluent cannot be as good as could be desired. There are plans for treatment of the effluent elsewhere but in the meantime, owing to the smallness of the flow the relatively minute contribution of pollution to the River Thames must be insignificant.

APPENDIX IV - FOOD HYGIENE

FOOD PREPARATION. 204 inspections were made by the Council's Public Health Inspectors and 22 informal notices were issued to secure compliance with the Food Hygiene Regulations. The following defects were remedied during the year.

Wash-hand basins provided	3
Sinks for washing equipment	8
Hot water supply provided	2
Locker accommodation for employees clothes	1
First Aid equipment provided	2
Cleanliness and repair of food rooms	16
Sanitary accommodation labelled	6
Miscellaneous repairs	18

REGISTERED PREMISES. Regulations require this Council to register distributors of milk, i.e. dairymen other than dairy farmers.

	<u>1960</u>	1961	1962	1963
Total number of distributors on register	31	33	38	46

The Food and Drugs Act,1955 requires certain premises to be registered. Those registered in 1963 were as follows:

	1963	Total registered
Sausage making and cooked meats	1	12
Storage and sale of ice cream	5	150
Manufacture and sale of ice cream	630	6 60

MEAT INSPECTION. The following carcases were inspected by the Council's Inspectors.

		Cattle excluding cows	Cows	Calves	Pigs
	Killed Inspected	Nil Nil	3 3 ·	23 23	132 132
All diseases exc	ept tuberculosis and cystic	cercosis.			
	Whole carcases rejected Part of carcases rejected Percentage diseased	Nil Nil Nil	2 1 10%	1 1 9%	1 2 2%
Tuberculosis only	у.				
	Whole carcases rejected Part of carcases rejected Percentage diseased	Nil Nil Nil	Nil Nil Nil	Nil Nil Nil	Nil 9 6.8%
Cysticercosis.	Carcases of which some part was rejected	Nil	Nil	Nil	Nil

SLAUGHTERING. The only slaughterhouse in use in the district in 1963 was that at the farm of Stone House Hospital and it was at that slaughterhouse that the above inspections were made. This slaughterhouse was under the control of the Hospital Management Committee and so did not require licensing. It was however closed during the year.

	1961	1962	1963
Number of Slaughtermen licensed	16	15	9

APPENDIX IV - FOOD HYGIENE (continued)

SEIZURE OF UNSOUND FOOD. In addition to the rejected meat the amount of unsound food surrendered in 1963 was:-

Meat	Other Foods
5989 lbs beef	$6\frac{1}{4}$ tons carrots
48 lbs lamb	694 pkts frozen foods
29 lbs miscellaneous	9464 tins of various foods

The unsound beef surrendered was from premises recently opened in the district for the packaging of meat. No unsound food had to be seized.

FOOD UNFIT FOR CONSUMPTION EXPOSED FOR SALE. The items of food, the fitness of which was the subject of complaint to this office by customers were:-

	Number	Confirmed
Soiled dough	2	2
Old stock	1	1
Moulds	5	5

These were transferred to the Kent County Council for submission to the Public Analyst and for action to be taken by them. Action taken resulted as follows:-

Brazil toffees	Rancidity (in nuts)	Makers notified.Old stock. Withdraw
Beef chipolatas	Mould growth	£10 fine plus £6. 9. 0 costs.
Steak & kidney pies	Mould growth	Written caution.
Steak pie	Mould growth	-do-
Apple turnovers	Mould growth	£10 fine plus £5. 5. 0 costs.
Apple pie	Mould growth	Written caution.
Sliced loaf	Soiled dough	£75 fine plus £21. 2. 6. costs.
Sliced loaf	Soiled dough	£20 fine plus £15. 3. 0 costs.

LABORATORY EXAMINATIONS.

Ice Cream. Four samples of ice cream were taken for the methylene blue test and all were Grade II i.e., regarded as satisfactory.

Milk. Milks sampled for designation tests by Food and Drugs Authority were:

	Satisfactory	Unsatisfactory
Pasteurised Milk	27	0
Tuberculin tested pasteurised	24	0
Sterilized milk	0	0

Among 49 milk samples analysed for food content, a number were submitted to designation tests. One pasteurised and two tuberculin tested pasteurised failed the Methylene Blue test.

Meat. Specimens from 2 carcases submitted to the Hospital Laboratory were reported on as follows:

Calf: Tissue from lung. Chronic bronchopneumonia with abscess formation in which are colonies of cocci. No fungi seen. Film: No acid Fast bacilli. Culture: B.Subtilis + B.coli + Haemolytic streptococci +

Cow: Section of masseter muscle. Granulomatous abscess.

No evidence of cysticercosis the most likely aetiology being fungus. No evidence of T.B.

APPENDIX V - FOOD CONTENT

Sampling. Details of samples taken by the County Sampling Officers within the Dartford District during 1963 were as follows. The samples were taken by the County as this Rural District is not a Food and Drugs Authority.

Summar	y
Milk	49
Drugs	11
Spirits	10
Other samples	_79
	149

Analysis

Sample of

Of the 149 samples taken for analysis all were satisfactory with the exception of:-

Action taken

Pork sausages	Total meat content 56%.	Written caution
Vitamised Iron and Yeast Tablets	Vitamen B ₁ 44 I.U. per tablet. Formula stated 70.	Written caution. Stocks withdrawn.
Meat pies	Meat 16% (reasonable standard 25%.)	Written caution.
Milk	Bottle caps in milk.	-do-
Milk bottle containing foreign matter	Deposit of the nature of cement in bottle. Insoluble in milk,	-do-
Dried figs	Contained vegetable and animal hairs and one mite.	Importers informed.
Apricot Conserve	Soluble solids 63% (low) fruit standard not less than 65%.	Follow-up sample satisfactory
Portion of large loaf	Contained small insect probably a moth.	Written caution

CUSTOMERS' COMPLAINTS. A sample was brought to the Dartford Rural District office and transmitted to the Food and Drugs Authority. The result of the action taken is as follows:-

Eccles cake Contained cigarette end. Proceedings taken. £20 fine plus £8. 15. 0 costs.

APPENDIX VI - RADIOACTIVITY

The County Analyst referring to FOODSTUFFS. 1963 and the whole county wrote -

"It will be remembered that milk and dairy products are the main source of radioactive material in the diet and therefore special emphasis has been placed on milk, the samples examined being a composite of all those received under the Food and Drugs Act each month.

The resumption of the testing of atomic weapons in the autumn of 1962 caused a rise in the amount of contamination, but due to the time lag before the debris from these explosions began to sink down to the lower atmosphere and the unusually dry winter of 1962-3, the effect of this rise was spread over a period of some months.

In the absence of further weapon tests it is anticipated that the amounts of the longer lived radioactive elements, such as Strontium 90 will gradually decrease, although a temporary rise may occur in the spring of 1964 due to the annual cycle of weather and crops.

The expected more rapid decrease in the amounts of the shorter lived radioactive elements has occurred and the amount of Strontium 89 fell to a level below that of accurate determination by the late autumn of 1963. shorter lived element Iodine 131 has not been detected since the end of 1962.

The significance of levels of Strontium 90 found in foods may be assessed by comparison with the "working levels" recommended by the Medical Research Council of 400 Strontium Units in the diet of individuals and of 130 Strontium Units in the diet of the population as a whole".

PICOCURIES STRONTIUM 90

Milk and Canteen Meals

	Milk		Canteer	Meals
1963	Per litre F	er gm Ca.*	Per kilo	Per gm Ca.*
1st qr. 2nd qr. 3rd qr. 4th qr.	10 23 34 33	9 20 30 28	15 20 26 34	18 24 33 38
		Other Spe	cific Items of Food	
Month	Article		Per kilo	Per gm Ca.*
February February February March May May May May June	Carrots Cabbage Potatoes Sprouts Plain Flour Spring Gree Watercress Wholemeal F	ens	2.4 7.7 1.4 16.6 5.9 52.0 67.0 33.0 70.0	7.5 10.7 15.0 35.0 4.0 28.0 45.0 27.0

In accordance with the Radioactive Substances Act, 1960, one firm was registered by the Ministry for the use in their research department of one source of not more than 20 millicuries of Strontium 90.

^{*} i.e. Strontium 90 Units

APPENDIX VII - REFUSE DISPOSAL

Within the area of this district there are four controlled tips, two of which are run by Local Authorities and two by a private company.

One tip at Longfield Hill which takes the refuse from a Metropolitan Borough has been in operation since 1899. This tip has presented problems in the past, due mainly to the method of transport of refuse to the tip.

Until about two years ago, refuse came by rail to sidings at the tip, the wagons being discharged at the sidings and the refuse being bulldozed from that point to the tip face. This method gave rise to nuisance as much refuse was strewn over the surface of the tip on the way to the tip face. Furthermore, adequate covering was not obtained which resulted in fly breeding and paper litter being blown from the tip.

This method of transport has now been changed to road transport and vehicles are now able to deposit the refuse at the tip face. Even so, inspections made from time to time have shown that owing to the inadequate covering, the tip is not always satisfactorily maintained. Suitable covering material is not always easy to obtain and settled refuse from other parts of the tip is being used as covering material. It is felt that the time is near when, after giving good service and fulfilled its purpose, this tip should be closed. This is a matter for immediate study when the new boroughs formed by Local Government re-organization come into being.

A disused claypit is also used as a controlled tip by another local authority and receives about 23,000 tons per year. This tip has been well maintained although from time to time during adverse weather conditions there has been some nuisance by paper being blown from the tip.

The private company have three disused chalkpits at their disposal and began operating the second of these when the first pit was practically full. Approximately 200,000 tons of refuse per annum from several Metropolitan Boroughs is being disposed of in this tip and the tip is used by this Council now that our tips are closed. Owing to adverse weather, mechanical failure and/or sickness of workmen, it would be almost impossible for a tip handling this quantity of refuse not to give rise to some nuisance from time to time.

However, the company are anxious to co-operate with us in the running of this tip, the tip is operated in an efficient manner, there being good covering and an absence of fly infestation. They have a contract with the Council for Rodent Control. Unfortunately, this tip is sited very close to a hospital from whom complaints have been received regarding dust and paper blowing from the tip.

Although it is felt that tipping cannot be carried on at this scale without at times some nuisance, and although the site is unfortunate, the duration of the operation is limited in years and there will be long-term benefit.

With close attention from the Council's Public Health Inspectors and the co-operation of the tip operators, we feel that this tip is being operated in a satisfactory manner.

APPENDIX VIII - NOISE

During the year complaints were received regarding noise from barking dogs, repair work in private premises, "beat" group bands, grain drying, chimes of ice cream vans and panel beating. They were investigated with the provisions of the Noise Abatement Act, 1960 in mind.

Abatement of the nuisance however, was secured by informal action, except in the case of nuisance from barking dogs. Complaints of noise of this nature or intermittent noise generally are difficult to assess as to whether they are nuisances, and investigation is long and time consuming.

APPENDIX IX- RODENT CONTROL, DISINFECTION & DISINFESTATION

The following is a summary of the work ca Rodent Operators:	rried out	by the C	ouncil's
RODENTS:	1961	1962	1963
No.of complaints received Infestations found	291	279	300
Rats, major Rats, minor Mice, major Mice, minor	258 - 28	1 242 - 25	267 - 30
	20	25	50
Infestations found as a result of a survey:			
Rats, major Rats, minor Mice, major and minor	9	2	- -
Business premises treated (except agricultural Private dwellings treated Agricultural properties surveyed Agricultural properties treated	38 370 4 5	16 241 - 11	45 247 - 5
Total number of treatments:	413	268	297
Estimated kill, Ministry of Food formula:			
Rats	1120	832	753
Dead bodies found:		1-11	
Rats	1050	1175	366
Mice	75	148	35
By traps or other means:			
Rats	21	54	860
Mice	-	-	-
Sewer treatment:			
Manholes tested Infestations found Infestations treated	-		-
DICTRIFFICATION.			
DISINFESTATION: Council houses disinfested of bed bugs	1	1	_
Private dwellings -ditto- Council houses disinfested of fleas Private dwellings -ditto-	6	2	1 - 1
Houses disinfested of ants	15	14	11
Houses disinfested of wood-worm		1	_
Houses disinfested of beetles Houses disinfested of swarms of flies	7 2	1 9	5 3
Houses disinfested of swarms of bees	6	6	1
Wasps nests destroyed Houses disinfested of silver fish	138	38	94 1
Houses disinfested of cockroaches	_	_	1
Houses disinfested of earwigs	-	2	5
Houses disinfested of red spider Houses disinfested of moles	-	2	
Houses disinfested of moths	-	í	800
Houses disinfested of frogs	Calle	1	-
Houses disinfested of other insects		0	
DISINFECTION:			
Housing, bedding etc, disinfected after infectious disease	11	5	-

FLY NUISANCE:

In February 1963 and subsequently, complaints were received of fly infestation in a house adjacent to a poultry farm. The complainant was convinced that the infestation arose from poultry manure at the farm but the flies were identified by the Natural History Museum as Cluster Flies. These had apparently been hibernating in the roof space of the complainants house and the increased heating necessary in the house during the severe winter had been sufficient to deceive the flies that summer had come.

Nevertheless, much work was done by the Council's Public Health Inspector in searching for possible breeding places of house flies in farms adjacent to the house and village and in securing removal and adequate disposal of manure.

Although this district has urban developments in rural areas, the only powers available to deal with removal of manure etc, was then Section 93 (Abatement of Nuisances) of the Public Health Act, 1936. We felt that in order to be able to deal effectively with noxious matter which could be a breeding ground for flies that Section 79 and 80 of the Public Health Act, 1936 should be made applicable to this district and the Council asked for these powers to be made available to the District Council.

In December, 1963, the Minister made the Dartford Rural District (Urban Powers) order 1963, which stated that from January 1964, Sections 79 and 80, Public Health Act, 1936 would be in force in the Rural District. These provide powers to require the removal of fly breeding material from premises when necessary. Although co-operation from farmers has been forthcoming with regard to the disposal of manure and the prevention of fly breeding, these additional powers will be useful if immediate action is necessary.

APPENDIX X - AIR HYGIENE

MEASUREMENTS. The monthly collections of deposit and the changes of exposed lead dioxide analysed by the County Analyst, and the daily measurements of smoke and acidity made in this office were included in the readings for the whole Thameside area distributed by the Thameside Joint Committee for the Abatement of Atmospheric Pollution.

DOMESTIC SMOKE. No smoke control orders have been made in respect of this district and it is a matter for conjecture as to whether the Minister would be prepared to confirm an order in respect of a Rural District in view of the question of availability generally of solid smokeless fuels, and the probable priorities for the denser areas of population.

INDUSTRIAL SMOKE. During 1963 there was no smoke nuisance from industrial premises requiring action by this Council.

APPENDIX XI - PLACES OF WORK

FACTORIES:

Under the Factories Acts the district council enforces the following Sections: (a) Section 7 (sanitary conveniences) in all factories (b) Sections 1, 2, 3, 4, 6 (cleanliness, temperature, ventilation and drainage of floors) in all factories where mechanical power is not used.

The following work was carried out by the Council's Public Health Inspectors:

1. INSPECTIONS UNDER PART I, FACTORIES ACT, 1961.

	Premises		Number of Inspections	Number of written notices	Number of occupiers prosecuted	
i)	Factories in which sections 1,2,3,4 & 6 are to be enforced by the Local Authority	9	gn [*]		79	
ii)	Factories not include in (i) in which S.7 enforced by the Local Authority	is	39	8	-	
iii)	Other premises in which S.7 is enforce by Local Authority (excluding outworker premises)		1	Cab	90	
	Totals	145	40	8	ean	

2. PARTICULARS OF DEFECTS FOUND:

Particulars	Number of defects found	Defects remedied	Referred to H.M.Inspector	Referred by H.M. Inspector	Number prosecu tions
Section 1	-	•	100	-	-
Sections 2,3,4 & 6	CIM	-	-	eso	-
Section 7 (Sanitary conveniences)	У				
(a) Insufficient	1	1	-	-	
(b) Unsuitable or defective	7	7	-	- 1-	180-
(c) Not separate for the sexes	or _	-	-	-	-
(d) Other offences against the action (excluding outworkers)		-	_	-	-
Totals	8	8		-	- /

APPENDIX XI- PLACES OF WORK (continued)

OUTWORKERS:

(a)

	to the Council by firms in the Dartford Rural District under Section 110 (1c) Factories Act 1961.	54
(b)	Total numbers of outworkers notified by Dartford Rural District Council to other Councils under Section 110 (2) Factories Act, 1961	15
(c)	Total number of outworkers notified to Dartford Rural District Council by other Councils under Section 110 (2)	22
(d)	Total number of outworkers employed in Dartford Rural District	61
(e)	Total number of inspections of work- places under Section 111 (i) Factories Act, 1961	Nil
(f)	Scheduled occupations followed by out- workers in Dartford Rural District	
	Making wearing apparel	28
	Making of boxes or other receptacles or parts thereof made wholly or partially of paper, cardboard, chip	
	or similar material	33

Total number of outworkers notified

SHOPS:

There were 376 shops, including licenced premises in the rural area as at 31st March, 1964.

The total number of inspections during the period covered by this report by the Council's Public Health Inspectors of shops, other than food preparing premises, was 39.



WINTER

INTRODUCTION

The standards of environment including those of shelter and warmth vary in our community and whether these differences are merely a matter of amenity or whether they have also a substantial influence on health is a question of social importance. Below is a study of winter deaths which might contribute information on this subject.

COLD AND THE FRAIL "The temperature of the body is the result of two factors - the production of heat and its loss. In elderly people the production of heat is diminished because their muscular activity is lower and even the basal metabolism may fall because of endocrine deficiencies. Loss of heat is increased in those elderly people who from poverty are unable to afford fuel or warm clothing or even draught-free, dry living-rooms". If they are confused they are likely to expose themselves to cold unnecessarily.

In the newborn and the aged, cold can disturb the body function through the lower body temperature, a condition which for technical purposes has to be named "accidental hypothermia". Hypothermia may cause death direct or may hasten death due to other underlying causes.

"Old people living alone are especially at risk, and each area should have a list of such people. Old people's welfare committees in their co-ordinating role are well placed to prepare such lists. Visiting by doctors and nurses, relatives and voluntary workers should be organised.... The old people should be given help, with insulation of their houses and provision of warm clothing and fuel, by official or voluntary services and should themselves be warned of the danger. National assistance boards can give special help in cold weather". (B.M.J. 14. 11. 64).

AIR

Winter is a time of air pollution. Not only are more combustion products created by the need for increased domestic heating but the pollution that is created cannot easily disperse. The cold ground denies the air its bouyancy. In addition to the general increase in air pollution there are acute episodes of fog which traps and concentrates the pollution which can then precipitate the failure of damaged lungs and crippled hearts.

INFECTIONS

A group of viruses make their presence felt in winter and the illnesses they cause are loosely termed "colds and flu" " whether or not a true influenza virus is responsible. This type of infection can contribute to death by tipping the balance in a person already in fragile health. Amongst the working population this is the most common cause of exacerbation of absence from work and the receipts of sickness benefit show that 1960 was the only recent year free from these infections. The accompanying graphs show the trend of sickness benefit and illustrate the effect of influenza in the working community.

WARMTH

The only warmth in winter is artificial and the air that has to be warmed has only the water in it that it can carry when cold. Most forms of heating thus result in a relatively dry air. This lessened humidity discourages some forms of germ life, e.g. moulds, but encourages others, e.g. those of upper respiratory infection (Hope Simpson, R.S.H. 1958) and dysentery (Tomlinson, unpublished). drier the air the more numerous are deaths from bronchitis and pneumonia (Boyd, B.I.P.S.M. 1960). The air we want in winter needs to be moist enough to keep the lining of our windpipes turgid but dry enough to keep our clothes "aired" Apart from air conditioning this does not seem and warm. feasible in any class of home.

MANAGER and LABOURER

Expensive meals, costly transport, sleepless nights and repeated exasperation impose on the deteriorating manager a damaged heart to which cold may be the final burden. Life in crowds, fag-end smoking and chest infection impose on the deteriorating labourer damaged lungs to which air pollution or infection may be overpowering. heating in the "desirable residence" avoids the risks of cold but increases the chance of infection. Oil heating in lodgings diminishes the chance of infection but increases the risk of cold from damp beds and clothing. In the suburbs the aged have cold bedrooms in big and isolated houses while in the urban terraces their cottages are cosy, small and Even draughty houses are not without advantage neighbourly. in so far as the air they contain is never stale. The lonely may find winter a hazard to their mental health but the social gatherings of the gregarious transmit infections which assault their physical health. Once all are above the poverty line no one section of the community can monopolize the influences for opposing winter - January and February are

still to be reckoned with even if with less emphasis than in the past. (The house fly has a remedy. Air=insulated, he sleeps through winter cocooned in comfort in the moist fermenting warmth of the refuse tip, - provided he finds the right spot).

WINTER 1962-63 "The winter of 1962-63 was an exceptional one. A marked fall in temperature occurred on 22nd December and a period of exceptionally cold weather ensued and lasted until 4th March. Snow in greater or lesser amounts lay continuously in many parts of the country and at times there was considerable disorganization of transport. At Kew Observatory it was the coldest January since 1838 and in St.James' Park, London, the mean January temperature of 0.8°C was 5.4°C below normal for the month. The lowest temperature recorded in the country was - 20.6°C on 23rd January."

London

"In London the effect of low temperature on mortality was not noticeable until immediately after Christmas by which time on December 26th the minimum temperature had fallen to - 4°C. The daily mortality figures then rose continuously to reach maximum on 25th and 28th January and again on the 19th February. A period of particular heavy atmospheric pollution when the mean daily figures from seven London sites rose to 820ug per cubic metre of smoke and 1,230ug per cubic metre of sulphur dioxide corresponds to the period of high mortality from 23rd to 28th January."

"Little evidence of influenza virus infection was observed until the last week of January when outbreaks associated with influenza virus A2 were reported, mainly from southern England accompanied by an increase in the numbers of notifications from primary and influenzal pneumonia and of deaths from influenza and pneumonia. For several weeks influenza was largely confined to London and the south east, reaching a peak in London Administrative County in about the middle of February. In London influenza may have had an effect of keeping the morbidity and mortality rates at a high level for some time after the return of the warmer weather".

"The Emergency Bed Service data for respiratory diseases indicates that the age groups between 5 and 44 years show no noticeable seasonal increase. Neither the polluted fogs nor the cold weather nor the influenza had any appreciable effect. The 45 - 79 year age groups showed the greatest increases both during the January - February period and as a result of

the individual peaks of high pollution. The record of the 0 - 4 age group is of particular interest as it shows a comparatively slight increase in morbidity during January and February, and no noticeable increase as a result of any of the pollution incidents". (C.M.O's report for 1963).

THE AGED LIVING ALONE In Dartford Rural District the 1961 census report stated that the males aged 65 and over and the females aged 60 and over living alone were as follows:

Parish	Males	Females
Ash-cum-Ridley	2	11
Darenth	13	25
Eynsford	15	55
Farningham	5	25
Fawkham	4	7
Hartley	10	36
Horton Kirby	10	33
Longfield	11	23
Southfleet	3	25
Stone	29	103
Sutton-at-Hone	9	58
Swanley	21	115
West Kingsdown	17	49
Wilmington	15	<u>71</u>
Dartford R.D.	164	636
	-	***********

WINTER DEATH RATES The adverse influences of winter outlined above may contain conjecture but one fact is clear namely that the complex blend of circumstances associated with winter is accompanied by a markedly higher death rate than pertains to other seasons. There was an exception in 1957 explained by the appearance of Asian influenza in the last quarter, a timing which was unusual.

Eng.&					
Wales	lst qr.	2nd qr.	3rd qr.	4th qr.	Year
1956 1957 1958 1959 1960 1961	15.3 12.2 14.7 15.8 13.1 15.5	10.8 10.6 11.0 10.6 10.9 10.9	9.3 9.7 9.3 9.0 9.8 9.5 9.4	11.3 13.4 11.7 11.1 12.2 11.9	11.7 11.5 11.7 11.6 11.5 11.9
1963	17.0	11.0	9.6	11.2	12.2
Dartford	R.D.				
1956* 1957* 1958* 1959 1960 1961 1962 1963	13.9 10.8 13.6 13.4 11.3 13.6 14.1	9.4 7.4 8.3 9.4 11.0 8.8 10.1 9.4	7.5 8.4 8.7 9.0 7.9 10.5 9.5	10.8 11.7 9.6 9.3 10.3 11.1 12.7 10.6	10.5 9.6 10.0 10.3 10.1 11.0 11.5
-,0,	- J + -	704	707		

^{*} adjusted for institutional deaths

OCAL AIR

LOCAL AIR EFFECT

Daily Volumetric Instrument. The Councils' Public Health Inspectors make daily measurements of the stain produced on filter paper by smoke and the acidity formed in hydrogen peroxide by SO2 in measured quantities of air. Table A contains the measurements for the winter of 1963 and provides 1962 figures and those of Islington Metropolitan Borough for comparison. figures indicate that in January and February 1963 air pollution was substantially greater than the winter average or the same months of 1962. This increase is displayed by the monthly average and not by highest daily concentrations owing to the increased pollution being over a prolonged period and not a brief acute episode. The increase was not as exceptional as the weather. Lead dioxide candle. Hitherto this provided an inexpensive means of measuring SO2. It consists of a cylinder 1" diameter 4" long and wrapped round this is fabric on which is spread a gummy paste of PbO2. This, enclosed in a louvered box is placed in the outside air for a month and then the SO2 caught by the PbO2 is measured by the analyst. Although the gauge primarily measures the SO2 its readings are a little influenced by the temperature, humidity, air friction and matter other than SO2 contained in the air. For the limited objective of SO2 measurement these features of the gauge are regarded as conveying inaccuracy and its use here has now been discontinued.

However, the effect of air pollution on the human lung is governed by a similar blend of circumstances. The temperature moisture content, air friction and content of extraneous matter are related to the damage done by the pollutants inhaled. The blend of pollutants and their circumstances may be more important that the amounts of the individual pollutants. If this is borne in mind it may be surmised that perhaps the inaccuracies of the lead dioxide gauge in chemical analyses might be informative for biological interpretation. The gauge, be it noted, is a crude imitation of the human windpipe turned inside out with the louvres of the box as nostrils and the granules of PbO₂ in the paste on the fabric are like cells clothed with mucus.

In 1963 the lead dioxide gauge was still in use in this district and the readings are given in Table B, they show a substantial increase over the usual figures for January and February in Dartford Borough but less so in the Rural District where the effectiveness of pollution remains only about half that of the urban areas. Again the increase was not as exceptional as the weather.

The smoke stain and the ${\rm SO}_2$ are only measured as indicators of the degree of air pollution.

LOCAL
DIRECT
COLD
DEATHS
1963

The following deaths were directly attributable to cold:

Age	Sex	Place of onset	Place of death	Cause
63	F	Council House	Joyce Green Hosp.	Hypothermia
70	F	Caravan	Caravan	Exposure to cold (self neglect)
73	F	Caravan	Caravan	-ditto-
80	M	Cottage	Joyce Green Hosp.	la.Gangrene b.Frostbite c.Senility II.Br.pneumonia
86	M	Cottage	Joyce Green Hosp.	Hypothermia

The female aged 63 was a widow living alone who habitually neglected herself and to whom medical attention was unwelcome. Her house was unheated and she had been lying about for 3 days before her doctor was called. She declined to enter hospital then but after the lapse of a further day she agreed to go into hospital but died shortly after admission. Her relatives lived not far away.

The females aged 70 and 73 were sisters living together in a caravan on a caravan site. In view of their eccentricity and their reclusive way of living, there had been apprehension for their welfar since 1959 when an application for an order for removal to hospital or other suitable place had been given consideration but it had been concluded that such an approach to the Court was inappropriate. In January the sisters had not been seen for over a week and when the caravan was forced open they were found dead. There was sufficient fuel and money in the caravan for their needs. Examination of blood post-portem showed no carboxy-haemoglobin.

The male aged 80 had been iving alone in an isolated rural cottage access to which had become blocked in the severe weather. He had been in the snow wearing rubber boots without stockings and later developed what were regarded as chillblains. In early Februar he moved to his sister's house in an urban area. Circulation in his legs was poor owing to hardened arteries and he had in fact frost proceeding to gangrene. He was admitted to hospital and when his condition allowed it partial amputation was performed but he died from terminal pneumonia on 3rd April.

The male aged 86 was admitted to hospital as an emergency on being seen for the first time ever by his family doctor. He was in a neglected condition on admission, was semi-conscious and had a temperature of 86°F. He died not long after admission. He had live with a relative in a rural cottage with neighbours and by a County class III road.

There were also in January and February 3 "cot" deaths (i.e.sudden infant deaths) attributed to respiratory disease. All well housed. Social classes III, V and V.

(vi)

These are cases that died, if any such cases occurred but recovered or lingered I do not know nor can it easily be gauged how many deaths were contributed to by such disorders unrecognized. The question arises as to whether these deaths from direct cold and known through the Coroners Court or through hospital admission are the small seen part of a larger undisclosed problem. To use an appropriate metaphor, are these cases the exposed tip of an iceberg 9/10ths of whose bulk is hidden?

ATH GISTRATION Essentially this is a question of statistics but in this small office our statistical material is sparse and our resources are limited. In regard to the incidence of ill health our information is confined to that of immediate public health importance. However, when death occurs civil needs outpace public health needs in providing a forceful incentive for complete registration and thus certain details surrounding each death are available for public health study. Thanks to the Registrars we have facts from death returns which by punch cards, knitting needle and slide rule are capable of analysis.

Thus it is that our study of the influence of winter environment will be based on a search for trends in the death records. The response of age, the change of emphasis, if any, on the prevailing causes of death and the share to each social class of the deaths recorded can in a crude way be extracted from our figures. It might be mentioned that the age and class constitution of the population each year will vary and for this reason it is the relationship of the winter quarter to the rest of the same year which is studied rather than comparisons of one years absolute figures with anothers.

IN CAUSE DEATH Classification is done in accordance with the international code of practice and the deaths are then assigned to the Registrar General's list of 36 causes. These are then grouped as follows:

Circulatory disease

Coronary, hypertensive and other heart and circulatory disease (R.G's.Nos. 18-21)

Cancer

All sites including leukaemia

(No.10-14)

Vascular lesions of Nervous system

(No.17)

Respiratory disease

Influenza,pneumonia,bronchitis
and other (Nos.22-25)

Other causes

The remainder (Nos. 32)

SOCIAL CLASS

Those with a memory of the interwar years will visualise a population in which the environmental needs were provided for by ability to earn and plan which in turn was related to social class. A classification of persons according to social class was made possible by the Registrar General who devised and kept revised a code of practice for the purpose. By use of the code different death rates could be discerned in each social class and these differences are still discernible. In essence, there are five classes as follows:

> Class I Professional etc.occupations Intermediate occupations III Skilled occupations IV Partly skilled occupations

Unskilled occupations

Social class affects a death rate by the influence of past environment provoking chronic diseases different in kind and degree in different classes and by the influence of the immediate environment on the persons so affected. But interpretation is complicated - a high death rate in young age groups through poor environment may, through survival of the fittest, produce a more robust population in the older age groups.

The classification of the 5 deaths directly due to cold mentioned above was as follows:

Age	Occupation	Social class
63	Widow of builders labour	V
70	Spinster -no occupation	Unclassified
73	11 11	11
80	Farm worker (retired) Bricklayer (retired)	IA
86	Bricklayer (retired)	III

Imperfections These records do contain imperfections. On rare occasions a death may be assigned to a wrong district or it may be registered late owing e.g. to an inquest. Social classification may be uncertain. The deaths occurring in our small population are of a number in which the play of chance should be taken into account. This memorandum is written by a layman in statistical methods.

> As a safeguard in making comparisons we should regard our figures as having a variability of about 5% through error or through circumstances we cannot perceive.

TABLE C

This table demonstrates the exacerbating effect of the winter influence but although the first quarter of 1963 shows a larger percentage than the first quarter of most other years, the difference is not large. It is larger in the age group of 75 years and over. Thus the severity of the 1963 winter had its effect and the aged were most affected. But the effect on the deaths occurring is not outstanding.

1959 had a superb and long summer yet in spite of this benefit no marked effect on the deaths is discernible. In 1958 Asian 'flu affected the younger age groups in the first quarter and their percentage of deaths is the only one to exceed the 1963 first quarter

TABLE D

This allocates the deaths of 1958, 1959, and 1963 to the social classes, the purpose being to show the effect of winter on each of the different classes and whether any differences of degree are discernible. The pattern of distribution of the deaths by class each quarter can be seen to vary only very little. Thus winter accelerates death but does so evenly among the social classes.

- (ii) In 1963 first quarter 20% of the deaths were in social class I & II compared with 17% for the year, i.e. a slight increase, while 27% of the deaths were in social classes IV & V compared with 32% for the year i.e. a slight decrease.
- (iii) Similarly 38% of the years deaths occurred in the 1963 first quarter for social classes I & II whereas the percentage for social classes IV & V was 30%. If anything social classes I & II appear to come off worse than classes IV & V.

TABLE E

This table carried out the same analysis for those aged 75 and over and produces the same results. A greater percentage of the years deaths occur in the first quarter amongst the aged than amongst all ages in table D, but the increase is the same for each class grouping.

TABLE F

(i) Just less than half a years deaths occur at the age of 75 or over and a means of gauging the effect of winter on the aged is to compare the percentage of these deaths in winter with the percentage for the year. This table performs this exercise. The years showing greatest increases were 1959, 1961 and 1963. An effect of winter on the aged is discernible through an increase in the percentage in the first quarters but it is not marked and 1963 produced nothing exceptional.

TABLE F (continued)

- (ii) Amongst the social classes in the first quarter of 1963 the increase was much the same for classes I & II and for class IV & V being 55% to 65% and 47% to 55% respectively.
- (iii) Did any cause of death show marked accentuation among the aged? The percentages for 1962 and 1963 are given but no disease shows an outstanding difference from the percentage for the year and 1963 produced no outstanding difference in the pattern for the first quarter.

TABLE G

This table breaks the 1963 deaths down into the two age groups, into the six main causes of death, into the four social class groups and into the quarters of the year. The numbers resulting are small and the probability that differences may be due to chance is too great to use them for conclusions. They are presented therefore for interest only.

SUMMARY AND CONCLUSIONS

Winter is a blend of several adversities one influence of which is to increase the death rate in the first quarter of the year.

The first quarter of 1963 was a winter of exceptional severity and 5 deaths directly due to cold became known through hospital admission or coroner's court.

In an endeavour to find if a class or age group is affected by winter more than any other the details of winter deaths, particularly those of 1963, have been subjected to analysis.

The percentage of the years deaths which occur in winter is greater for those aged 75 years and over than for those under that age. This applies to all groups of social classes.

In deaths of the five social classes there was no one class group which showed an increase in the winter greatly differing from those of other groups.

The exceptional winter of 1963 produced no outstanding change in these patterns.

The five deaths of 1963 directly due to cold were related to self neglect and to circumstances peculiar to the deceased rather than pertaining to the population as a whole.

They did not appear to be the small revealed fraction of an extensive unseenmisfortune due to inadequacy of the physical environment.

TABLE A
VOLUMETRIC INSTRUMENT MEASUREMENTS

Micrograms per cubic metre

		Dartfo	artford Borough							Islington Met.B		
			Site 6			Si	te 8			Sitel		
		Smoke	SO ₂	Ratio		Smoke	SO2	Ratiq		Smoke	SO ₂	Ratio
Ave	rage conce	ntrati	on				_				-	
1961/62	Jan Feb March Apl/Sept Oct/Mch	143 131 129 39 140	186 223 195 94 180	0.77 0.59 0.66 0.41 0.77		97 77 95 26	139 141 155 58	0.70 0.55 0.61 0.44		88 53 152 52 111	201 270 116	0.35 0.26 0.56 0.44 0.42
1962/63	Jan Feb March Apl/Sept Oct/Mch	207 213 59 39 157	365 294 105 100 254	0.57 0.72 0.56 0.39 0.62		156 151 41 31	288 211 65 63	0.54 0.72 0.63 0.49	i	336 301 143 63 266	320 161 107	0.81 0.94 0.89 0.59 0.82
Hig	hest daily	conce	ntrati	on								
1961/62	Jan Feb March Apl/Sept Oct/Mch	687 374 436 123 714	739 475 389 288 739			400 189 345 190 461	965 294 437 192 965		:	236 157 249 200 443	542 508 520 349 1042	
1962/63	Jan Feb March Apl/Sept Oct/Mch	642 343 280 137 946*	949 474 301 491 1852*			484 239 190 123 1258*	547 544 210 400 1305*			1128 522 362 245 1680*	1747 640 393 391 3303*	
		*	The De	cember	196	2 fog	, i		1			1

TABLE B LEAD DIOXIDE INSTRUMENT

Milligrams SO_{3} per 100 sq.cms.lead dioxide surface per day

		Dartford Borough Site 4	Dartford R.D. Site 8	Islington Met.B Site 1
961/62	Jan Feb March Apl/Sept) Oct/Mch	1.6 2.8 2.0 1.4	1.0 1.2) 1.2)	2.8 3.5 3.4 1.8
962/63	Jan Feb March Apl/Sept Oct/Mch	3.4 3.0 1.6 1.1 2.5	2.0 1.4 0.7 0.4 1.3	3.1 3.0 2.0 1.1 2.4

TABLE C
PERCENTAGES OF EACH YEARS DEATHS REGISTERED EACH QUARTER

(i) Deaths by quarters						
All ages	lst Qr.	2nd Qr.	3rd Qr.	4th Qr.	year	
1957 1958 1959 1960 1961 1962 1963	138 174 157 127 164 170	89 100 111 124 107 122 121	105 105 106 89 128 112	153 116 109 116 134 154 136	485 495 483 456 533 558 573	
Aged 0-64						
1957 1958 1959 1960 1961 1962 1963	82 102 80 71 72 84 93	45 56 71 68 56 62 72	72 69 63 55 78 66 76	89 57 59 73 80 89 74	288 284 273 267 286 301 315	
Aged 75 and						
1957 1958 1959 1960 1961 1962 1963	56 72 77 56 92 86 101	44 44 40 56 51 60 49	33 36 43 34 50 46 46	64 59 50 43 54 65 62	197 211 210 189 247 257 258	
(ii) Percen	tage of ea	ch years	deaths regi	stered ea	ch quarter	
All ages	lst Qr.	2nd Qr.	3rd Qr.		Year	
1957 1958 1959 1960 1961 1962 1963	28% 35% 32% 28% 31% 30% 34%	18% 20% 23% 27% 20% 22% 21%	22% 21% 22% 20% 24% 20% 21%	32% 24% 23% 25% 25% 28%	100% 100% 100% 100% 100% 100%	
Aged 0 - 64						
1957 1958 1959 1960 1961 1962 1963	29% 36% 29% 27% 25% 28%	15% 20% 26% 26% 20% 20%	25% 24% 23% 21% 27% 22%	31% 20% 22% 26% 28% 30% 23%	100% 100% 100% 100% 100% 100%	
Aged 75 and o	ver					
1957 1958 1959 1960 1961 1962 1963	2 <i>8%</i> 3 <i>4%</i> 3 <i>6%</i> 3 <i>7%</i> 3 <i>4%</i> 3 <i>9%</i>	23% 21% 19% 30% 21% 23%	17% 17% 21% 18% 20% 18%	32% 28% 24% 22% 22% 25% 24%	100% 100% 100% 100% 100% 100%	

TABLE D

(i)	Deaths according	ng to social	l class.	All ages.	All cause	S
195	8 Class	lst Qr.	2nd Qr.	3rd Qr.	4th Qr.	Year
	I II III IV V Unclassified Total	8 31 58 38 23 16 174	10 14 34 16 18 8 100	2 18 44 17 13 11 105	5 12 49 17 18 <u>15</u> 116	25 75 185 88 72 50 495
1959	I II III IV V Unclassified Total	3 28 72 19 19 <u>16</u> 157	5 23 38 24 12 9 111	5 17 43 22 7 12 106	4 19 43 20 14 9	17 87 196 85 52 46 483
1963	I II III IV V Unclassified Total	6 32 75 30 24 27 194	3 20 47 29 12 10	1 15 56 23 12 15	1 21 52 31 20 11 136	11 88 230 113 68 63 573
(ii)	Percentage of a	above deaths	s in each	social cl	ass	
1958	I & II III IV & V Unclassified	22% 34% 35% 	24% 34% 34% <u>8%</u> 100%	19% 42% 28% <u>11%</u> 100%	15% 42% 30% <u>13%</u> 100%	20% 37% 33% 10%
1959	I & II III IV & V Unclassified	20% 46% 24% <u>10%</u> 100%	25% 35% 32% 8% 100%	21% 40% 28% <u>11</u> % 100%	21% 40% 31% <u>8</u> % 100%	22% 40% 29% <u>9</u> % 100%
1963	I & IÍ III IV & V Unclassified	20% 39% 27% _14% _100%	19% 40% 33% 8% 100%	12% 47% 28% <u>13%</u> 100%	16% 38% 38% 	17% 40% 32% 11% 100%
(iii) l	Percentage of al	oove deaths	in each	quarter		
1958	I & II III IV & V	39% 31% 38%	24% 18% 21%	20% 24% 19%	17% 27% 22%	100% 100% 100%
1959	I & II III IV & V	30% 36% 28%	26% 20% 27%	21% 22% 21%	23% 22% 24%	100% 100% 100%
1963	I & II III IV & V	38% 33% 30%	24% 20% 23%	16% 25% 19%	22% 22% 28%	100% 100% 100%

TABLE E
DEATHS AGED 75 AND OVER

	(i)	Deaths	according	to social	class. Al	l causes				
1963	Class		lst Qr.	2nd Qr.	3rd Qr.	4th Qr.	Year			
	I III IV V Unclassin	Sied	1 24 37 16 14 <u>9</u>	2 10 14 15 6 2 49	- 8 21 9 4 - <u>4</u>	9 28 10 11 <u>4</u> 62	3 51 100 50 35 19 258			
	(ii)	(ii) Percentage of above deaths in each social class								
	I & II III IV & V Unclassi	fied	25% 37% 29% <u>9%</u> 100%	25% 29% 42% <u>4</u> % 100%	17% 46% 28% 	14% 45% 35% <u>6%</u> 100%	21% 39% 33% _7% 100%			
	(iii)	Percen	tage of abo	ove deaths	in each q	uarter				
	I & II III IV & V		46% 37% 36%	22% 14% 25%	15% 21% 14%	17% 28% 25%	100% 100% 100%			
			TAI	BLE F						
	(i)	Deaths	aged 75 a	nd over as	percentag	ge of all	deaths *			
		1957 1958 1959 1960 1961 1962 1963	41% 41% 49% 44% 56% 50%	49% 44% 36% 45% 48% 49%	31% 34% 41% 38% 39% 41% 38%	42% 51% 46% 37% 40% 42% 45%	41% 43% 43% 41% 46% 46% 45%			
	(ii)	Above ;	percentage	s for 1963	by social	class				
ı	I & II III IV & V		65% 49% <u>55</u> %	52% 30% <u>51</u> %	50% 38% <u>36</u> %	41% 54% <u>41</u> %	55% 44% <u>47</u> %			
	All inclu Unclassi:		52%	41%	38%	45%	45%			
		Above	percentage	s for 1962 VII Annual	and 1963					
]	Circ.disea Cancer Vasc.les.D Resp.disea Other caus	N.S. ase ses	56% 25% 74% 52% 29% 50%	61% 31% 67% 56% 28% 49%	52% 19% 55% 66% 19% 41%	58% 21% 50% 56% 33% 42%	57% 24% 63% 55% 28% 46%			
	Circ.dises Cancer Vasc.les.J Resp.dises Other causes	N.S. ase ses	56% 33% 64% 62% 36% 52%	48% 22% 50% 46% 39% 41%	46% 20% 85% 38% 21% 38%	48% 35% 79% 52% 30% 45%	50% 27% 70% 55% 22% 45%			

^{*} from annual reports

TABLE G

1963

MAIN CAUSES OF DEATH BY SOCIAL CLASS AND QUARTER

(i) Aged 0 - 74 years

Class I & II III IV & V Unclassified Total	8 13 5 6 32	2nd Qr. 1 14 8 2 25	3rd Qr. 2 14 5 2 23	4th Qr. 3 12 9 1 25	Year 14 53 27 11 105
I & II III IV & V Unclassified Total	(b) Cand 7 6 3 16	6 6 5 <u>1</u> 18	3 14 5 4 26	7 2 8 <u>17</u>	16 29 24 <u>8</u> 77
I & II III IV & V Unclassified Total	(c) Vaso - 2 3 2 7	c.lesions o	of Nervous - 2 - 2 - 2	System - 2 1 - 3 2	9 4 2 15
I & II III IV & V Unclassified Total	1 8 3 4 16	piratory di 2 4 1 - 7	1 1 2 4	2 4 2 2 10	5 17 7 8 37
I & II III IV & V Unclassified Total	1 8 10 3 22	er diseases 2 6 6 5 19	3 4 11 3 21	1 4 10 4 19	7 22 37 <u>15</u> 81
I & II III IV & V Unclassified Total	(f) All 10 38 27 18 93	causes 11 33 20 8 72	8 35 22 <u>11</u> 76	13 24 30 <u>7</u> 74	42 130 99 44 315

TABLE G (continued)

(ii) Aged 75 years and over

(a) Circulatory disease

Class	lst Qr.	2nd Qr.	3rd Qr.	4th Qr.	Year
I & II III IV & V Unclassified Total	12 15 12 <u>2</u> 41	8 8 7 <u>-</u> 23	3 9 6 2 20	3 13 6 <u>1</u> 23	26 45 31 5 107
	(b) Cancer			
I & II III IV & V Unclassified Total	2 5 1 <u>=</u> 8	1 3 <u>1</u> <u>5</u>	1 3 2 <u>-</u>	3 6 2	3 12 12 12 <u>1</u> 28
	(c) Vasc.le	sions of N	ervous Sys	tem
I & II III IV & V Unclassified Total	14	2 1 - - 3	4 4 2 <u>1</u> 11	4 4 2 1 11	14 12 8 <u>5</u> 39
		d) Respira	tory disea		
I & II III IV & V Unclassified Total	5 9 11 <u>1</u> 26	1 3 1 <u>1</u> <u>6</u>	1 1 1 2	1 7 3 <u>11</u>	7 20 16 3 46
	(e) Other d	iseases		
I & II IV & V Unclassified Total	2 3 3 4 12	1 2 8 <u>1</u> 12	4 1 <u>1</u> <u>6</u>	1 1 4 <u>2</u> 8	4 10 16 <u>8</u> 38
	(d) All cau	ses		
I & II III IV & V Unclassified	25 36 30 10 101	12 14 20 <u>3</u> 49	8 21 12 <u>5</u> 46	9 28 21 <u>4</u> <u>62</u>	54 99 83 22 258

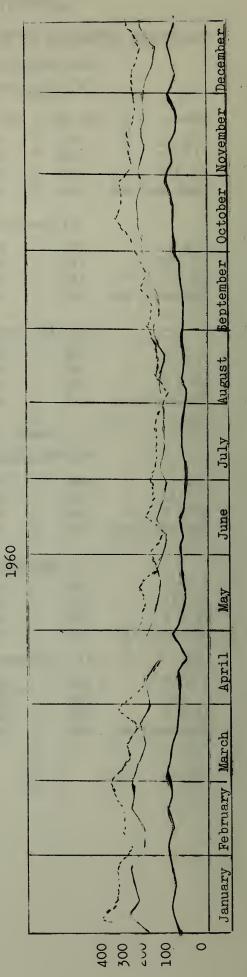
TABLE G (continued)

PERCENTAGE OF CERTAIN OF ABOVE DEATHS IN EACH QUARTER

- (i) Aged 0 74 years
- (a) Circulatory disease

Class	lst Qr.	2nd Qr.	3rd Qr.	4th Qr.	Year
	57% 25% 19%	7% 26% 30%	14% 26% 19%	22% 23% 32%	100% 100% 100%
Unclassified	,	18%	18%	9%	100%
	(d) Res	spiratory d	isease		
I & II III	20%	40%	0% 5d	40%	100%
IV & V	47% 43%	24% 14%	5% 14%	24% 29%	100%
Unclassified		%	25%	25%	100%
	(f) All	causes			
I & II	26%	26%	18%	30%	100%
III IV & V	29% 27%	25% 20%	27% 23%	19% 30%	100%
Unclassified		18%	25%	16%	100%
	(7			
		ged 75 year		<u>c</u>	
	1 1	culatory d			
I & II III	46% 33%	30% 18%	12% 20%	12% 29%	100% 100%
IV & V	38%	22%	20%	20%	100%
Unclassified			40%	20%	100%
	(d) Res	spiratory d	lisease		
I & II	72%	14%	0%	14%	100%
III IV & V	45% 69%	15% 6%	5% 6%	35% 19%	100% 100%
Unclassified	33%	33%	33%	1%	100%
	(f) All	causes			
I & II	46%	22%	15%	17%	100%
III	37%	14%	21%	28%	
IV & V Unclassified	36% 48%	25% 10%	14% 21%	25% 21%	100%
			•	,	,

MIN. of P & N.I. FIRST CERTIFICATES OF INCAPACITY 1959 1,000 400 300 900 009 500



December

November

August September October

July

June

May

April

March

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January

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MIN. of P & N.I. FIRST CERTIFICATES OF INCAPACITY

